



# STIC Search Report

EIC 1700

STIC Database Tracking Number: 180633

TO: Janis Dote  
Location: Rem 9D79  
Art Unit : 1756  
March 3, 2006

Case Serial Number: 10/507299

From: Mei Huang  
Location: EIC 1700  
REMSEN 4B28  
Phone: 571/272-3952  
Mei.huang@uspto.gov

## Search Notes

Examiner Dote,

If you have any questions or if you would like to refine the search query, please feel free to contact me.

Thank you for using STIC services!

Mei Huang

Note: The answers were restricted by the  
Priority Year, 2002.



Access DB# 180633

## SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: JANIS DOTE Examiner #: 68274 Date: 2/27/06  
Art Unit: 1756 Phone Number 302-1352 Serial Number: 10/507299  
Mail Box and Bldg/Room Location: REM 9D79 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: CHARGE CONTROL AGENT AND TONER FOR ELECTROSTATIC  
IMAGE DEVELOPMENT CONTAINING THE SAME

Inventors (please provide full names):  
MASASHI YASUMATSU, TOSHIHIRO URAKAWA, AKIHIRO TADA

Earliest Priority Filing Date: 03/22/02

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

PLEASE SEARCH MONOAZO METAL COMPOUND  
SHOWN IN CLAIM 2, NOTE THE -NHC-OR<sup>6</sup>  
GROUP HAS TO BE PRESENT.  
SEE <sup>ATTACHED</sup> COPIES OF PAGES 18-19 OF SPECIFICATION  
FOR EXAMPLES OF CLAIMED COMPOUNDS.

SCIENTIFIC REFERENCE BR  
Sci & Tech Inf. Cntr

FEB 27 REC'D

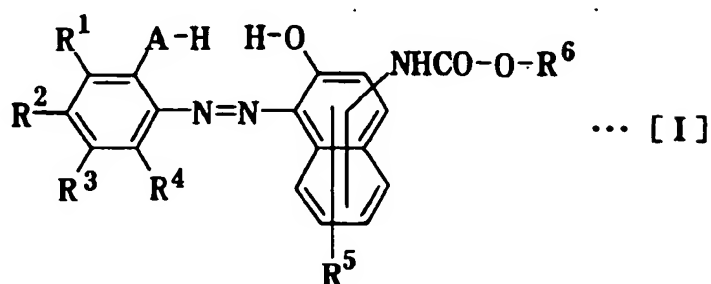
Pat. & T.M. Office

## STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>MQH</u>	NA Sequence (#) _____	STN <input checked="" type="checkbox"/> _____
Searcher Phone #: _____	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) <u>1</u> _____	Questel/Orbit _____
Date Searcher Picked Up: _____	Bibliographic _____	Dr.Link _____
Date Completed: <u>3/3/06</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: _____	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: _____	Other _____	Other (specify) _____

What is claimed is:

1. A charge control agent comprising:  
a monoazo metals-compound including a monoazo compound  
5 represented by the following formula [I]



in the formula [I], R<sup>1</sup>-, R<sup>2</sup>-, R<sup>3</sup>- and R<sup>4</sup>- are same or different to each other, and one thereof is selected from the groups consisting of a hydrogen atom, an alkyl group of a straight chain or a branch chain  
10 having 1 to 18 carbon atoms, an alkenyl group of a straight chain or a branch chain having 2 to 18 carbon atoms, an aryl group being to have substitutional groups, a sulfonamide group which is to substitute alkyl groups, a mesyl group, a hydroxyl group, an alkoxyl group having 1 to 18 carbon atoms, an acetylamino group, a benzoylamino group, a halogen  
15 atom, a nitro group and -COO-R<sup>7</sup> of which -R<sup>7</sup> is a hydrogen atom or an alkyl group,

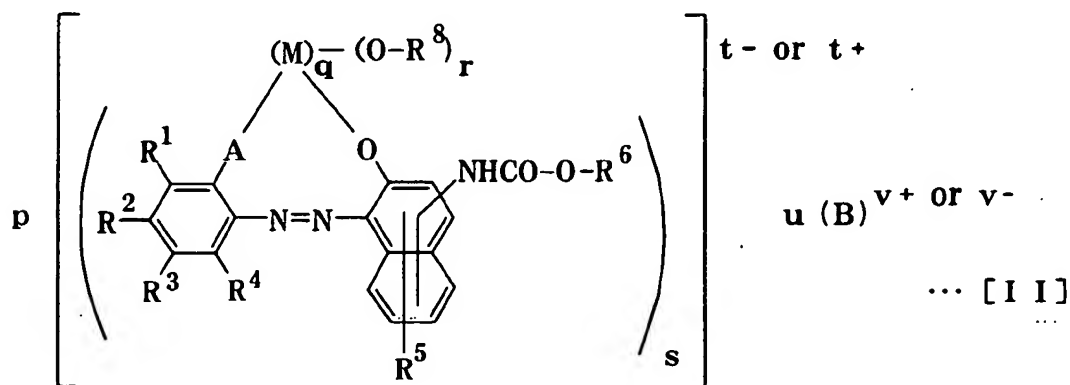
-A- is -O- or -COO-,

-R<sup>5</sup> is a hydrogen atom, an alkyl group of a straight chain or a branch chain having 1 to 18 carbon atoms, an alkenyl group of a straight  
20 chain or a branch chain having 2 to 18 carbon atoms, an aryl group being to have a few substitutional groups, an aralkyl group being to have

substitutional groups, a sulfonamide group, a mesyl group, a hydroxyl group, an alkoxyl group having 1 to 18 carbon atoms, a carboxyl group or a sulfone group,

-R<sup>6</sup> is a hydrogen atom, an alkyl group of a straight chain or a branch chain having 1 to 18 carbon atoms, an alkenyl group of a straight chain or a branch chain having 2 to 18 carbon atoms, an aryl group being to have substitutional groups, an aralkyl group being to have substitutional groups or an alkoxyl group having 1 to 18 carbon atoms; and metals of a metallic element or a metalloid coordinating to the monoazo compound.

2. The charge control agent according to claim 1, wherein said monoazo metals-compound is represented by the following formula [II]



15 in the formula [II], R<sup>1</sup>-, R<sup>2</sup>-, R<sup>3</sup>- and R<sup>4</sup>- are same or different to each other, and one thereof is selected from the groups consisting of a hydrogen atom, an alkyl group of a straight chain or a branch chain having 1 to 18 carbon atoms, an alkenyl group of a straight chain or a branch chain having 2 to 18 carbon atoms, an aryl group being to have



substitutional groups, a sulfonamide group being to substitute alkyl groups, a mesyl group, a hydroxyl group, an alkoxyl group having 1 to 18 carbon atoms, an acetylamino group, a benzoylamino group, a halogen atom, a nitro group and  $-\text{COO}-\text{R}^7$  of which  $-\text{R}^7$  is a hydrogen atom or an alkyl group,

$-\text{A}-$  is  $-\text{O}-$  or  $-\text{COO}-$ ,

$-\text{R}^5$  is a hydrogen atom, an alkyl group of a straight chain or a branch chain having 1 to 18 carbon atoms, an alkenyl group of a straight chain or a branch chain having 2 to 18 carbon atoms, an aryl group being to have substitutional groups, an aralkyl group being to have substitutional groups, a sulfonamide group, a mesyl group, a hydroxyl group, an alkoxyl group having 1 to 18 carbon atoms, a carboxyl group or a sulfone group,

$-\text{R}^6$  is a hydrogen atom, an alkyl group of a straight chain or a branch chain having 1 to 18 carbon atoms, an alkenyl group of a straight chain or a branch chain having 2 to 18 carbon atoms, an aryl group being to have substitutional groups, an aralkyl group being to have substitutional groups or an alkoxyl group having 1 to 18 carbon atoms,

$p$  ranges from 1 to 2,

$(\text{M})_q$  wherein  $\text{M}$  is metals selected from a bivalent, trivalent or tetravalent metallic element, and a metalloid of boron or silicon,  $q$  ranges from 1 to 4,

$-(\text{O}-\text{R}^8)_r$ , wherein  $-\text{R}^8$  is an alkyl group having 1 to 8 carbon atoms or an aryl group,  $r$  ranges from 0 to 3,

$s$  ranges from 1 to 6,

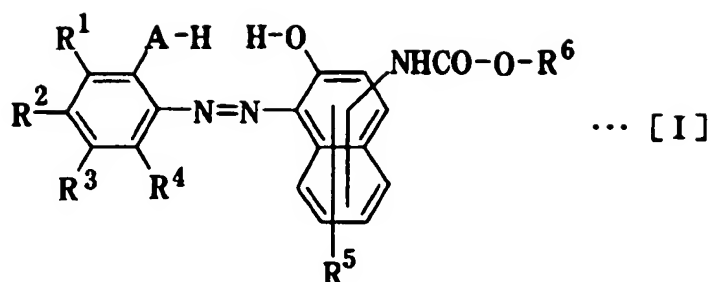
$t$  ranges from 0 to 2,

u ranges from 0 to 2,

(B)<sup>v+</sup> is univalent or bivalent cation,

(B)<sup>v-</sup> is univalent or bivalent anion.

- 5     3.     The charge control agent according to claim 2, wherein said monoazo metals-compound is represented by said formula [II] whose M is the metallic element of either Fe, Zn, Sr, Ca, Mg, Cr, Al, Ni, Co, Mn, Ti, Zr or Sn.
- 10    4.     The charge control agent according to claim 2, wherein said monoazo metals-compound is represented by said formula [II] whose q is 1 and s is 2.
5.     The charge control agent according to claim 1, wherein said  
15    monoazo compound which is contaminated in said monoazo metals-compound, is 1% at most.
6.     The charge control agent according to claim 1, wherein said  
20    monoazo metals-compound has an average particle size ranging from 0.1 to 7 microns.
7.     A toner for developing an electrostatic image comprising:  
a charge control agent including a monoazo compound represented by  
the following formula [I]



in the formula [I],  $R^1$ -,  $R^2$ -,  $R^3$ - and  $R^4$ - are same or different to each other, and one thereof is selected from the groups consisting of a hydrogen atom, an alkyl group of a straight chain or a branch chain having 1 to 18 carbon atoms, an alkenyl group of a straight chain or a branch chain having 2 to 18 carbon atoms, an aryl group being to have substitutional groups, a sulfonamide group being to substitute alkyl groups, a mesyl group, a hydroxyl group, an alkoxyl group having 1 to 18 carbon atoms, an acetamino group, a benzoylamino group, a halogen atom, a nitro group and  $-COO-R^7$  of which  $-R^7$  is a hydrogen atom or an alkyl group,

$-A-$  is  $-O-$  or  $-COO-$ ,

$-R^5$  is a hydrogen atom, an alkyl group of a straight chain or a branch chain having 1 to 18 carbon atoms, an alkenyl group of a straight chain or a branch chain having 2 to 18 carbon atoms, an aryl group being to have substitutional groups, an aralkyl group which being to have substitutional groups, a sulfonamide group, a mesyl group, a hydroxyl group, an alkoxyl group having 1 to 18 carbon atoms, a carboxyl group or a sulfone group,

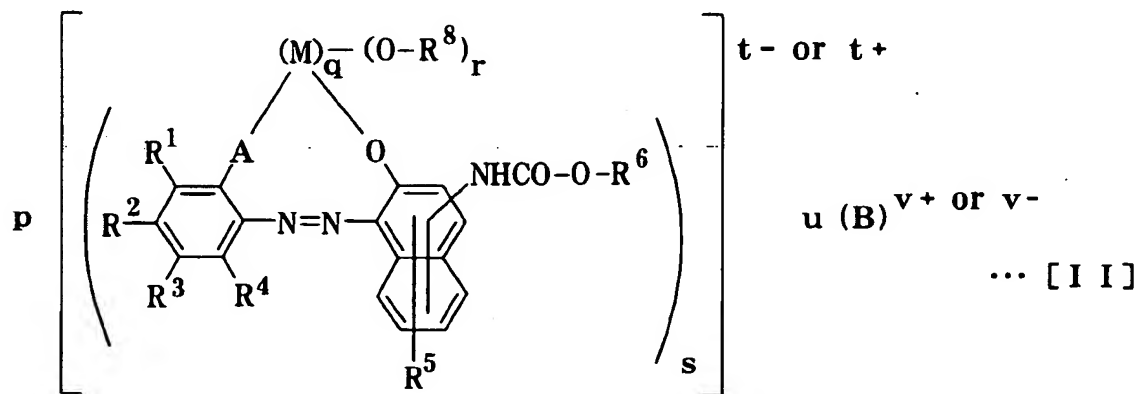
$-R^6$  is a hydrogen atom, an alkyl group of a straight chain or a branch chain having 1 to 18 carbon atoms, an alkenyl group of a straight

chain or a branch chain having 2 to 18 carbon atoms, an aryl group being to have substitutional groups, an aralkyl group being to have substitutional groups or an alkoxyl group having 1 to 18 carbon atoms,

- and metals of a metallic element or a metalloid coordinating to the  
 5 monoazo compound;  
 a resin for the toner;  
 and a colorant.

8. The toner according to claim 7, wherein said resin is at least one  
 10 selected from styrene-acryl resin, styrene-maleic acid resin, styrene-(meth)acrylate copolymer and a polyester resin, having an acid value of 5 to 50 mgKOH/g thereof.

9. A toner for developing an electrostatic image comprising:  
 15 a charge control agent including a monoazo metals-compound represented by the following formula [II]



in the formula [II], R<sup>1</sup>-, R<sup>2</sup>-, R<sup>3</sup>- and R<sup>4</sup>- are same or different to each

other, and one thereof is selected from the groups consisting of a hydrogen atom, an alkyl group of a straight chain or a branch chain having 1 to 18 carbon atoms, an alkenyl group of a straight chain or a branch chain having 2 to 18 carbon atoms, an aryl group being to have substitutional groups, a sulfonamide group being to substitute alkyl groups, a mesyl group, a hydroxyl group, an alkoxyl group having 1 to 18 carbon atoms, an acetylamino group, a benzoylamino group, a halogen atom, a nitro group and  $-\text{COO}-\text{R}^7$  of which  $-\text{R}^7$  is a hydrogen atom or an alkyl group,

10             $-\text{A}-$  is  $-\text{O}-$  or  $-\text{COO}-$ ,

$-\text{R}^5$  is a hydrogen atom, an alkyl group of a straight chain or a branch chain having 1 to 18 carbon atoms, an alkenyl group of a straight chain or a branch chain having 2 to 18 carbon atoms, an aryl group being to have substitutional groups, an aralkyl group being to have substitutional groups, a sulfonamide group, a mesyl group, a hydroxyl group, an alkoxyl group having 1 to 18 carbon atoms, a carboxyl group or a sulfone group,

$-\text{R}^6$  is a hydrogen atom, an alkyl group of a straight chain or a branch chain having 1 to 18 carbon atoms, an alkenyl group of a straight chain or a branch chain having 2 to 18 carbon atoms, an aryl group being to have substitutional groups, an aralkyl group being to have substitutional groups or an alkoxyl group having 1 to 18 carbon atoms,

$p$  ranges from 1 to 2,

$(\text{M})_q$  wherein  $\text{M}$  is metals selected from a bivalent, trivalent or tetravalent metallic element, and a metalloid of boron or silicon,  $q$  ranges from 1 to 4,

$-(O-R^8)_r$ , wherein  $-R^8$  is an alkyl group having 1 to 8 carbon atoms or an aryl group,  $r$  ranges from 0 to 3,

$s$  ranges from 1 to 6,

$t$  ranges from 0 to 2,

5  $u$  ranges from 0 to 2,

$(B)^{v+}$  is univalent or bivalent cation,

$(B)^{v-}$  is univalent or bivalent anion;

a resin for the toner;

and a colorant.

10

10. The toner according to claim 9, wherein said resin is at least one selected from styrene-acryl resin, styrene-maleic acid resin, styrene-(meth)acrylate copolymer and a polyester resin, having an acid value of 5 to 50 mgKOH/g thereof.

15

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SEL RN

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L3 STR 608519-59-1  
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L5 STR L3  
L6 6 S L5  
L7 70 S L5 FUL  
SAV L7 DOT299/A  
L8 5 S L2 AND L7

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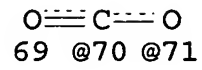
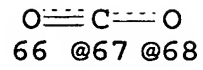
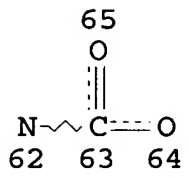
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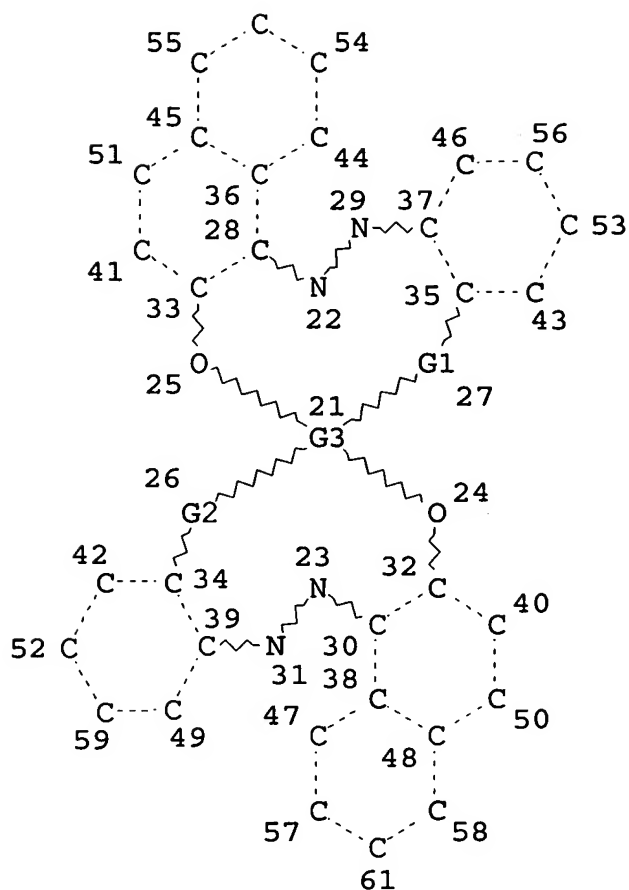
L5 STR



60

Page 1-A





Page 2-A

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VAR G2=O/70-34 71-21

VAR G3=M/B/SI

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 51

STEREO ATTRIBUTES: NONE

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100.0% PROCESSED 76 ITERATIONS

70 ANSWERS

MEI HUANG EIC1700 REM4B28 571-272-3952

03/03/2006

SEARCH TIME: 00.00.01

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=&gt; d l11 ibib abs hitstr hitind 1-48

L11 ANSWER 1 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:97820 HCAPLUS

DOCUMENT NUMBER: 140:147643

TITLE: Method for dyeing silk-animal fiber blends with  
uniform and deep color, and their dyed products

INVENTOR(S): Tomibe, Junko; Hiramoto, Takeshi; Utsumi,  
Takashi

PATENT ASSIGNEE(S): Nippon Sanmo Dyeing Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004036037	A2	20040205	JP 2002-194667	200207 03

PRIORITY APPLN. INFO.:

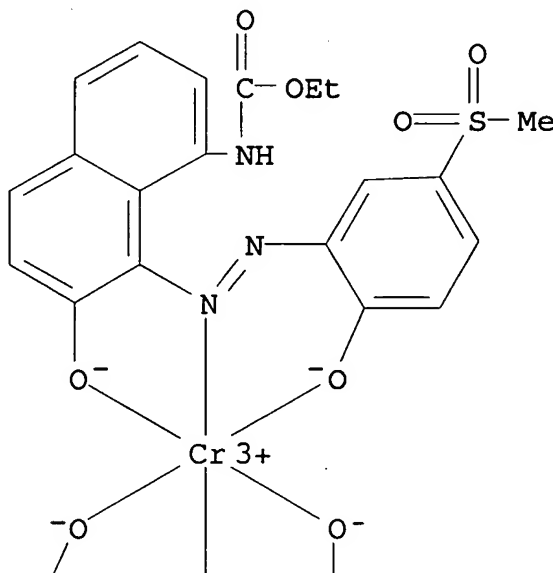
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JP 2002-194667

200207  
03

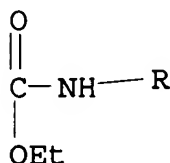
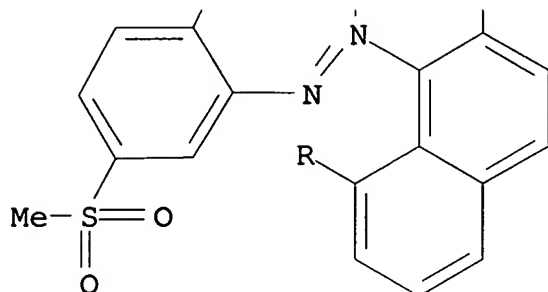
AB The method is characterized in that the silk fibers are cationized prior to blending with animal fibers and dyeing. Thus, silk fibers were treated with a cationizing agent (Cationon UK), mixed with wool fibers, and dyed with a black dye (comprising Yamada Chrome Black PLW, Mitsui Chrome Yellow M, Sumitomo Chrome Green F) to show deep color.

IT 12218-94-9, Irgalan Grey BL  
RL: TEM (Technical or engineered material use); USES (Uses)  
(dye; dyeing silk-animal fiber blends with uniform and deep  
color)  
RN 12218-94-9 HCAPLUS  
CN Chromate(1-), bis[ethyl [7-hydroxy-8-[[2-hydroxy-5-  
(methylsulfonyl)phenyl]azo]-1-naphthalenyl]carbamato(2-)]-,  
hydrogen, (OC-6-11)- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

● H<sup>+</sup>

IC ICM D06P003-82  
 ICS D02G003-04; D03D015-00; D04B001-14; D06M011-07; D06M013-463;  
 D06P003-852; D06P005-00  
 CC 40-6 (Textiles and Fibers)  
 IT 1787-61-7, Mitsui Chrome Black PB 5601-29-6, Irgalan Yellow 2GL  
 11099-97-1, Irgalan Yellow 2RL 12218-94-9, Irgalan Grey BL  
 12219-54-4, Irgalan Brown 2RL 12238-97-0, Irgalan Brown 3BL  
 70209-99-3, Lanazol Blue 3G 70210-39-8, Lanazol Red 5B  
 70247-70-0, Lanazol Yellow 4G 159074-65-4, Lanyl Blue G  
 652991-39-4, Yamada Chrome Yellow M 652991-78-1, Lanazol Red 5G  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (dye; dyeing silk-animal fiber blends with uniform and deep  
 color)

L11 ANSWER 2 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:778099 HCAPLUS

DOCUMENT NUMBER: 139:299179

TITLE: Electrophotographic charge control agent and  
 toner for electrostatic image development  
 containing the same

*The current Application*

INVENTOR(S): Yasumatsu, Masashi; Urakawa, Toshihiro; Tada, Akihiro  
 PATENT ASSIGNEE(S): Orient Chemical Industries, Ltd., Japan  
 SOURCE: PCT Int. Appl., 47 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003081341	A1	20031002	WO 2003-JP3252	20030318

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2003220885	A1	20031008	AU 2003-220885	20030318
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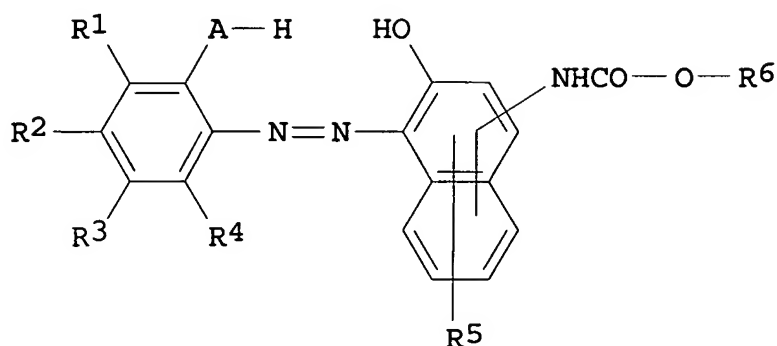
US 2005208409	A1	20050922	US 2004-507299	20040910
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PRIORITY APPLN. INFO.:	JP 2002-81513	A	20020322
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WO 2003-JP3252	W	20030318
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OTHER SOURCE(S) : MARPAT 139:299179

GI



I

AB The invention relates to an electrophotog. charge control agent which comprises a monoazo metal compd. comprising a monoazo compd. represented by the following chem. formula I ( R1-4 = H, C1-18 alkyl, C2-18 alkenyl, aryl, acetylamino, etc.; R5 = H, C2-18 alkenyl, aryl, aralkyl, sulfoneamide, etc.; R6 = H, C1-18 alkyl, C2-18 alkenyl, aryl, aralkyl, C1-18 alkoxy) and a metal or semimetal coordinating to the monoazo compd. Also provided is a toner for electrostatic image development which comprises: a charge control agent comprising a monoazo compd. and a metal or semimetal coordinating to the monoazo compd.; a toner resin; and a colorant.

IT 608519-59-1P 608519-60-4P 608519-61-5P  
608519-62-6P 608519-63-7P

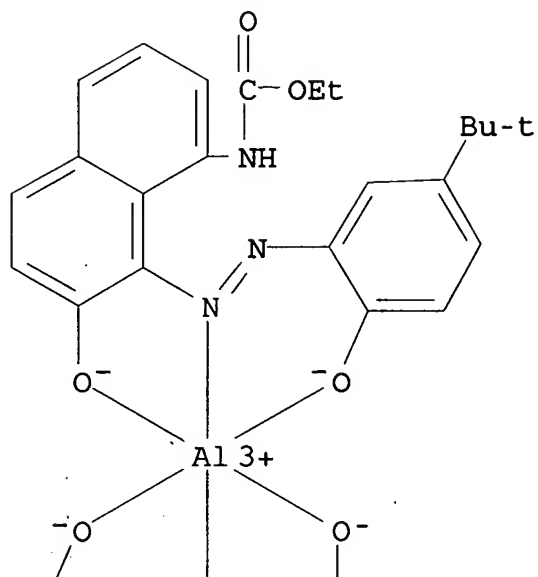
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(electrophotog. charge control agent and toner for electrostatic image development contg. the same)

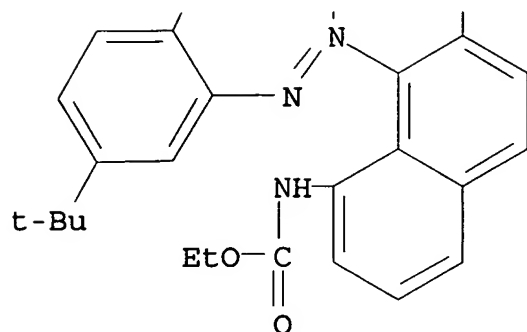
RN 608519-59-1 HCAPLUS

CN Aluminate(1-), bis[ethyl [8-[[5-(1,1-dimethylethyl)-2-(hydroxy-κO)phenyl]azo-κN1]-7-(hydroxy-κO)-1-naphthalenyl]carbamato(2-)]-, ammonium (9CI) (CA INDEX NAME)

PAGE 1-A



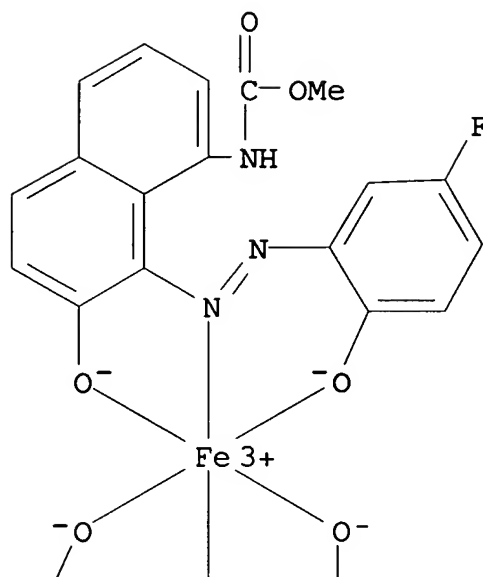
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● NH<sub>4</sub><sup>+</sup>

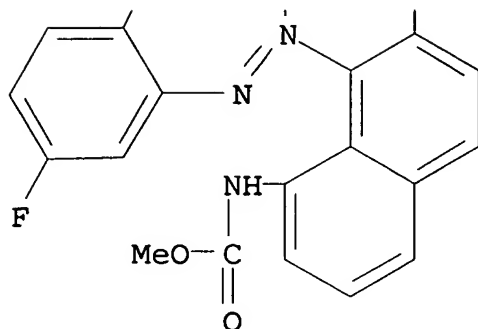
RN 608519-60-4 HCAPLUS  
CN Ferrate(1-), bis[methyl [8-[[5-fluoro-2-(hydroxy-κO)phenyl]azo-κN1]-7-(hydroxy-κO)-1-naphthalenyl]carbamato(2-)]-, sodium (9CI) (CA INDEX NAME)



PAGE 1-A

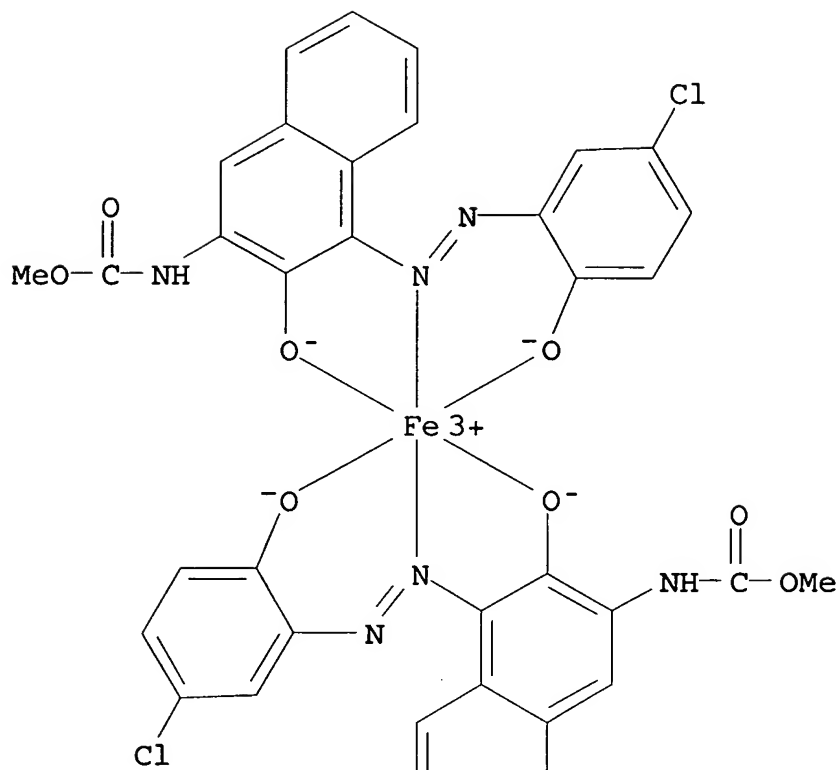


PAGE 2-A

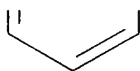
● Na<sup>+</sup>

RN 608519-61-5 HCAPLUS  
CN Ferrate(1-), bis[methyl [4-[[5-chloro-2-(hydroxy-κO)phenyl]azo-κN1]-3-(hydroxy-κO)-2-naphthalenyl]carbamato(2-)]-, sodium (9CI) (CA INDEX NAME)

PAGE 1-A

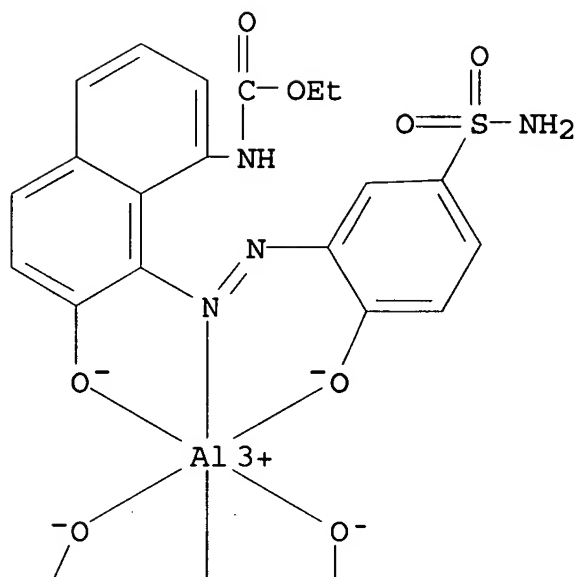


PAGE 2-A

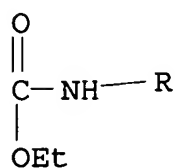
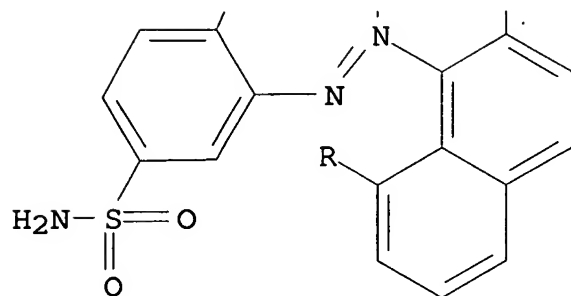
● Na<sup>+</sup>

RN 608519-62-6 HCAPLUS  
 CN Aluminate(1-), bis[ethyl [8-[[5-(aminosulfonyl)-2-(hydroxy-  
 κO)phenyl]azo-κN1]-7-(hydroxy-κO)-1-  
 naphthalenyl]carbamato(2-)]-, ammonium (9CI) (CA INDEX NAME)

PAGE 1-A



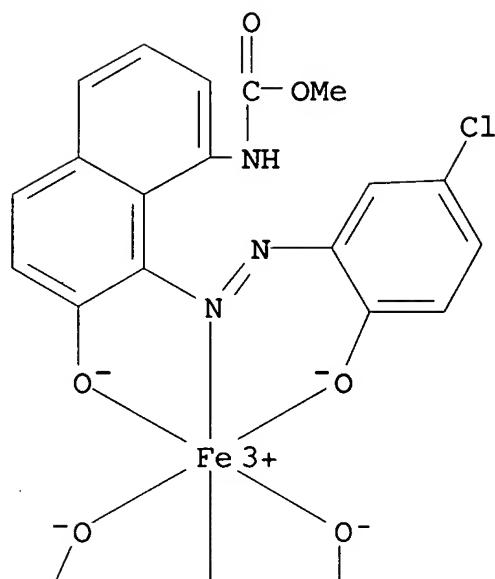
PAGE 2-A



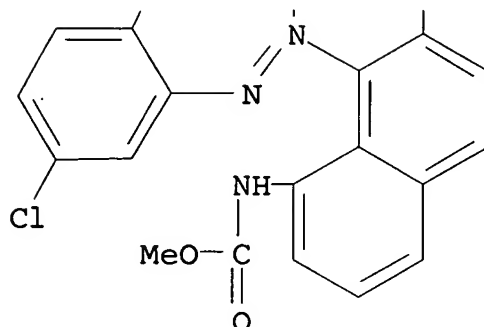
RN 608519-63-7 HCAPLUS

CN Ferrate(1-), bis[methyl [8-[[5-chloro-2-(hydroxy-κO)phenyl]azo-κN1]-7-(hydroxy-κO)-1-naphthalenyl]carbamato(2-)]-, sodium (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

● Na<sup>+</sup>

IC ICM G03G009-097  
CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)  
IT 608519-59-1P 608519-60-4P 608519-61-5P  
608519-62-6P 608519-63-7P  
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(electrophotog. charge control agent and toner for electrostatic image development contg. the same)

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 3 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 2001:662830 HCAPLUS  
DOCUMENT NUMBER: 136:201686  
TITLE: Dyebath reuse in dyeing of nylon microfiber non-woven fabric with 1:2 metal complex dyes  
AUTHOR(S): Koh, Joon Seok; Kim, Yong Geol; Kim, Jae Pil  
CORPORATE SOURCE: School of Materials Science and Engineering, Seoul National University, Seoul, 151-742, S. Korea  
SOURCE: Fibers and Polymers (2001), 2(1), 35-40  
CODEN: FPIOA6; ISSN: 1229-9197  
PUBLISHER: Korean Fiber Society  
DOCUMENT TYPE: Journal

LANGUAGE: English

AB The dyebath used for metal complex dyeing of nylon 6 microfiber was examd. for recycling to reduce the overall amts. of metal complex dyeing effluents. Instead of discharging the dyebath after each dyeing cycle, the residual dyebath was analyzed spectrophotometrically and reconstituted to the required concn. of dyes and auxiliaries. Dyebaths were reused eight times and the CIELAB coordinates of dyed samples were measured after each recycling. The color difference ( $\Delta E^*$ ) between the sample dyed in the fresh bath and that from the reused dyebath was maintained below 1.5. The levelness and fastness of dyed fabrics from the recycled dyebath were not impaired. The Cr content of each recycled dyebath was similar to that of the first residual dyebath.

IT 12218-94-9, Lanasyn Grey BL

RL: PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)

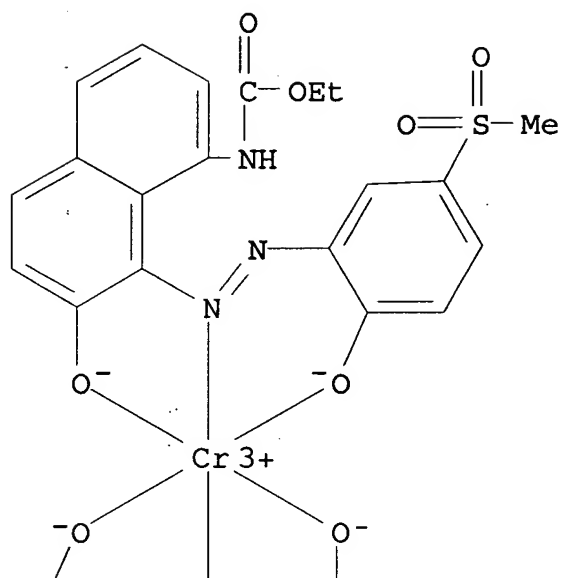
(dyebath reuse in dyeing of nylon microfiber nonwoven fabric with)

RN 12218-94-9 HCAPLUS

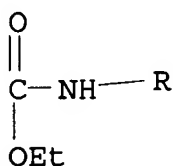
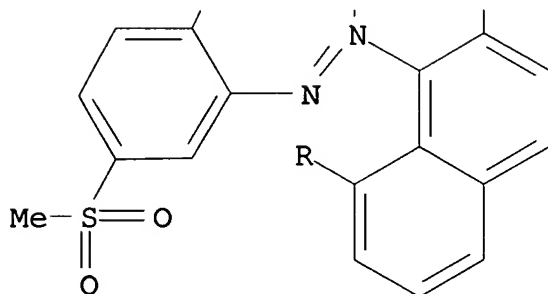
CN Chromate(1-), bis[ethyl [7-hydroxy-8-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-1-naphthalenyl]carbamato(2-)]-, hydrogen, (OC-6-11)- (9CI) (CA INDEX NAME)



PAGE 1-A



PAGE 2-A

●  $\text{H}^+$ 

CC 40-6 (Textiles and Fibers)  
IT 5601-29-6, Lanasyn Yellow 2GLN 12218-94-9, Lanasyn Grey BL  
61931-02-0, Lanasyn Black SDL 61967-96-2, Lanasyn Navy S-BL  
RL: PEP (Physical, engineering or chemical process); PYP (Physical  
process); TEM (Technical or engineered material use); PROC  
(Process); USES (Uses)  
(dyebath reuse in dyeing of nylon microfiber nonwoven fabric  
with)

REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE  
FOR THIS RECORD. ALL CITATIONS AVAILABLE  
IN THE RE FORMAT

L11 ANSWER 4 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 2001:328316 HCAPLUS  
DOCUMENT NUMBER: 136:119755  
TITLE: Application of sodium acrylate oligomer  
chelating dispersant in dyeing and finishing  
AUTHOR(S): Chen, Yifei  
CORPORATE SOURCE: Department of Dyes and Chemistry, Jiaxing  
Vocational Technology College, Jiaxing, 314000,

SOURCE: Peop. Rep. China  
Zhengzhou Fangzhi Gongxueyuan Xuebao (2001), 12(1), 57-59  
CODEN: ZFGXF8; ISSN: 1007-4945

PUBLISHER: Zhengzhou Fangzhi Gongxueyuan Xuebao Bianjibu

DOCUMENT TYPE: Journal

LANGUAGE: Chinese

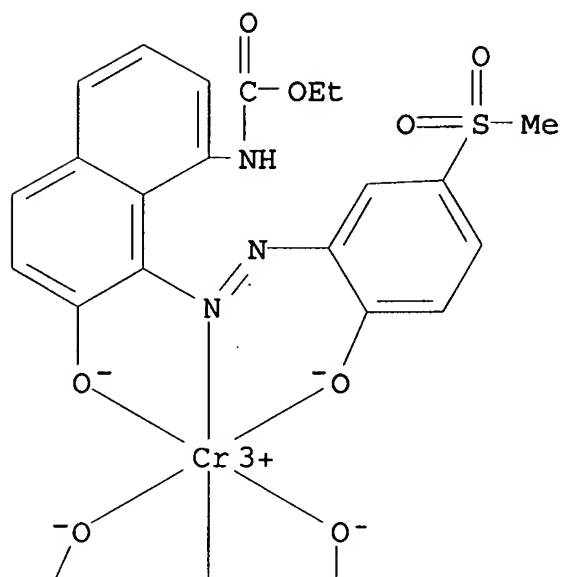
AB The application of a sodium acrylate oligomer (Alcosperse AD) chelating dispersant in dyeing and finishing of textiles was studied. The results showed that Alcosperse AD could block  $\text{Ca}^{2+}$  and  $\text{Mg}^{2+}$  in hard water, thus improved quality of dyeing and finishing products, solved environmental pressure caused by using other complex. Suitable application concn. of Alcosperse AD was 1-2 g/L, but it should be avoided when there existed cationic dyes and additives in soln.

IT 12218-94-9, Acid black 58  
RL: TEM (Technical or engineered material use); USES (Uses)  
(dye, brightening; advantages of using sodium acrylate oligomer chelating dispersant in dyeing and finishing)

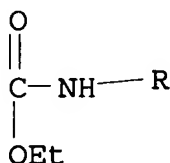
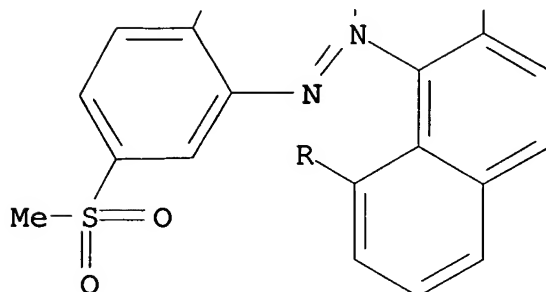
RN 12218-94-9 HCAPLUS

CN Chromate(1-), bis[ethyl [7-hydroxy-8-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-1-naphthalenyl]carbamato(2-)]-, hydrogen, (OC-6-11)- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

● H<sup>+</sup>

CC 40-6 (Textiles and Fibers)  
Section cross-reference(s): 38, 41  
IT 12218-94-9, Acid black 58  
RL: TEM (Technical or engineered material use); USES (Uses)  
(dye, brightening; advantages of using sodium acrylate oligomer  
chelating dispersant in dyeing and finishing)

L11 ANSWER 5 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1999:308241 HCAPLUS  
DOCUMENT NUMBER: 131:117422  
TITLE: Development of small liquor ratio dye machine  
for small-width silk fabric  
AUTHOR(S): Imai, Takeshi  
CORPORATE SOURCE: Kyoto City Dyeing Test Center, Japan  
SOURCE: Kyozome to Seiren Senshoku (1999),  
Volume Date 1998, 49(4), 103-109  
CODEN: KTSSDI; ISSN: 0289-2596  
PUBLISHER: Kyozome Kenkyukai  
DOCUMENT TYPE: Journal  
LANGUAGE: Japanese

AB The silk fabrics were dyed with 6 dyes using title machine. The dye formulations, optimum dyeing conditions, and dyeing results were discussed.

IT 12218-94-9

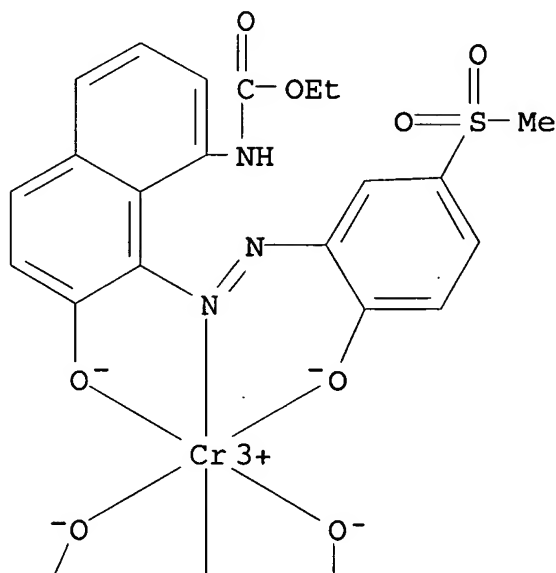
RL: MOA (Modifier or additive use); USES (Uses)

(dyeing of small-width silk fabrics with small liquor ratio dye machine)

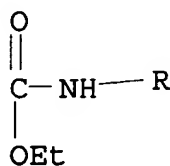
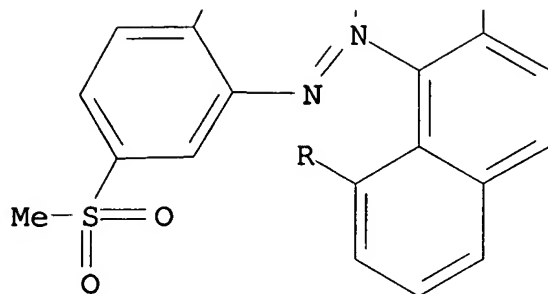
RN 12218-94-9 HCAPLUS

CN Chromate(1-), bis[ethyl [7-hydroxy-8-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-1-naphthalenyl]carbamato(2-)]-, hydrogen, (OC-6-11)- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

● H<sup>+</sup>

CC 40-6 (Textiles and Fibers)  
 IT 6459-94-5, Kayanol Milling Red RS 12217-29-7, Kayanol Milling  
 Green 5GW 12218-94-9 12220-51-8, Kayanol Milling Violet  
 FBW 25826-34-0, Kayanol Milling Blue GW 104981-56-8, Kayanol  
 Milling Yellow RW  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (dyeing of small-width silk fabrics with small liquor ratio dye  
 machine)

L11 ANSWER 6 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1997:727220 HCAPLUS  
 DOCUMENT NUMBER: 128:6888  
 TITLE: Effects of UV-decoloring of aromatic dyes with  
 different chemical structures  
 AUTHOR(S): Chu, Wei; Ma, Chi Wai  
 CORPORATE SOURCE: Department Civil Structural Engineering, Hong  
 Kong Polytechnic University, Kowloon, Peop. Rep.  
 China  
 SOURCE: Toxicological and Environmental Chemistry (  
 1997), 63(1-4), 247-255

CODEN: TECSDY; ISSN: 0277-2248

PUBLISHER: Gordon & Breach Science Publishers SA  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB The photodecompn. of various arom. dyes with assorted chem. structures such as chromophores, phys. and chem. properties were explored at 253.7 nm. The soly. of dye mol. was the primary factor to det. the efficiency of photodecompn. The higher the soly. of arom. dyes in water, the higher the efficiency of the dye being decolorized under UV irradiation. Compared with mono-azo dyes, dyes with multi-azo groups (di-, tri-, or poly-) were easier decolorized. Surprisingly, the irradiation of anthraquinone dyes could enhance the color content of dye soln. because of the formation of intermediates that carry higher molar extinction coeffs. ( $\epsilon$ ) during the photodecay process. These compds. absorbed more visible light at the detecting wavelengths ( $\lambda_{\max}$ ) than their original mols., and therefore the degree of color was increased. However, most of these intermediates can be further decompd. under extended UV-irradiation.

IT 12218-94-9, Acid black 58

RL: PEP (Physical, engineering or chemical process); REM (Removal or disposal); PROC (Process)

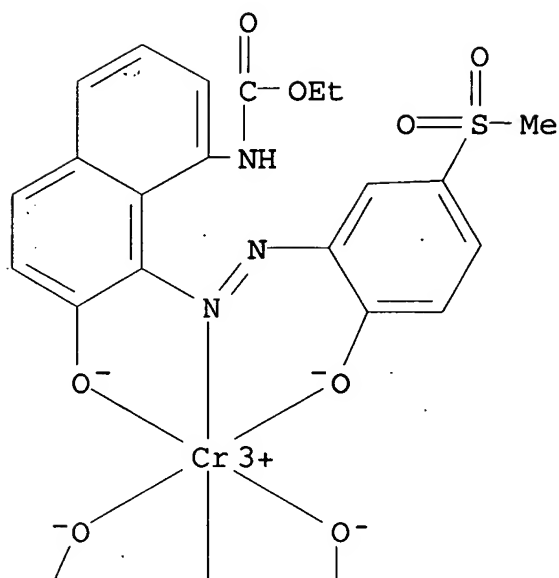
(UV photodecompn. efficiency of aq. solns. of)

RN 12218-94-9 HCAPLUS

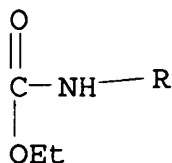
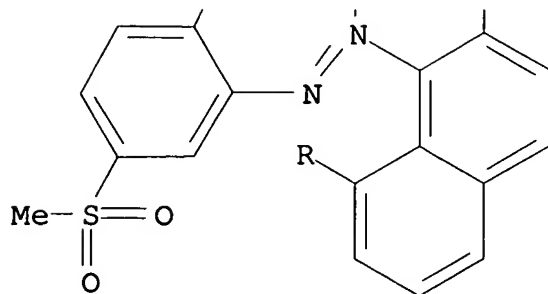
CN Chromate(1-), bis[ethyl [7-hydroxy-8-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-1-naphthalenyl]carbamato(2-)]-, hydrogen, (OC-6-11)-(9CI) (CA INDEX NAME)



PAGE 1-A



PAGE 2-A

● H<sup>+</sup>

CC 60-3 (Waste Treatment and Disposal)

Section cross-reference(s): 74

IT 81-77-6 2172-33-0, C.I. Vat orange 11 2503-73-3, Direct blue 78  
2580-78-1, Reactive blue 19 2610-10-8, Direct red 80 4399-55-7,  
Direct blue 71 6459-70-7, C.I. Acid yellow 117 12217-50-4, Basic  
yellow 13 12218-94-9, Acid black 58 12222-60-5, Direct  
yellow 106 12226-38-9, Reactive violet 5 12236-36-1, Disperse  
yellow 79 12270-13-2, Basic blue 41 17095-24-8, Reactive black 5  
61968-28-3, C.I. Disperse blue 143 64553-76-0, C.I. Disperse blue  
142

RL: PEP (Physical, engineering or chemical process); REM (Removal or  
disposal); PROC (Process)

(UV photodecompn. efficiency of aq. solns. of)

L11 ANSWER 7 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1997:149994 HCAPLUS

DOCUMENT NUMBER: 126:158663

TITLE: Non-destructive near-infra-red analysis for the  
identification of dyes on textiles

AUTHOR(S): Chen, Chi-Shi; Brown, Chris W.; Bide, Martin J.

CORPORATE SOURCE: Dep. Chem., Univ. Rhode Island, Kingston, RI,  
02881, USA  
SOURCE: Journal of the Society of Dyers and Colourists ( 1997), 113(2), 51-56  
CODEN: JSDCAA; ISSN: 0037-9859  
PUBLISHER: Society of Dyers and Colourists  
DOCUMENT TYPE: Journal  
LANGUAGE: English

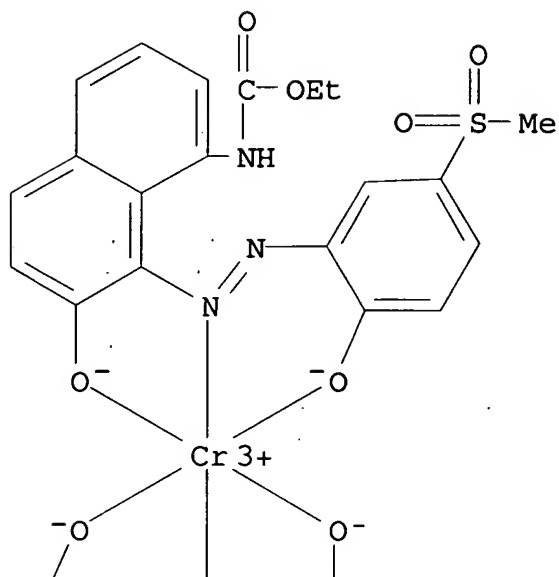
AB A pattern-recognition algorithm combined with near-IR reflectance spectroscopy has been modified to function as a nondestructive anal. technique for identifying dyes present on textiles. Samples of 261 dyes and textiles were measured in the 1100-2500 nm region to form a near-IR (reflectance) spectral library. Principal component anal. (PCA) was used to generate an orthonormal ref. library from the library of original spectra. The PCA algorithm treats the spectra in the library as an n component quant. anal. problem in which each spectrum represents a std. mixt. having a concn. of 1.0 for that component. Spectra of dyed textiles were used as an unknown set in a library search. This new method saves time and materials in comparison with traditional methods of analyzing dyes present on textile fibers. The library of dye spectra can be developed from measurements made directly on dye powder without interference from inorg. diluents. The method was successfully used to identify the dyes present on five cotton and wool textiles. The technique is particularly well suited for studying forensic, historic and archaeol. textiles because of its nondestructive nature and ability to analyze small amts. of sample.

IT 12218-94-9, C.I. Acid Black 58  
RL: ANT (Analyte); ANST (Analytical study)  
(nondestructive near-IR anal. for identification of dyes on textiles)

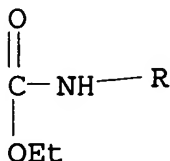
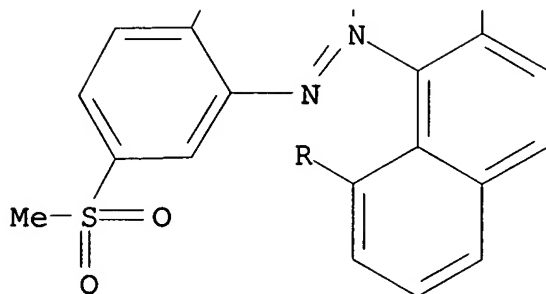
RN 12218-94-9 HCAPLUS

CN Chromate(1-), bis[ethyl [7-hydroxy-8-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-1-naphthalenyl]carbamato(2-)]-, hydrogen, (OC-6-11)- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

● H<sup>+</sup>

CC 40-3 (Textiles and Fibers)  
 Section cross-reference(s): 41, 80  
 IT 2150-60-9, C.I. Acid Blue 43 3441-14-3, C.I. Direct Red 23  
 12218-94-9, C.I. Acid Black 58 25738-24-3, C.I. Direct  
 Yellow 50 61725-10-8, C.I. Direct Yellow 110  
 RL: ANT (Analyte); ANST (Analytical study)  
 (nondestructive near-IR anal. for identification of dyes on  
 textiles)

L11 ANSWER 8 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1996:64298 HCAPLUS

DOCUMENT NUMBER: 124:119975

TITLE: Properties of EDAM copolymers as polypropylene  
 resin modifier

AUTHOR(S): Qian, Renyuan; Xu, Yuanze; Chen, Yihong; Shen,  
 Deyan; Jin, Xigao; Chen, Liusheng; Ohmae,  
 Tadayuki; Hosoda, Satoru; Tanaka, Hisao; et al.

CORPORATE SOURCE: Institute of Chemistry, Academia Sinica,  
 Beijing, 100080, Peop. Rep. China

SOURCE: Pure and Applied Chemistry (1995),

67(12), 2047-56

CODEN: PACHAS; ISSN: 0033-4545

PUBLISHER: Blackwell

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The copolymer of ethylene and N,N'-diethylaminoethyl methacrylate (EDAM) [DA 1701] was melt blended into polypropylene (PP) [PP 70218] before melt spinning into fibers, to improve dyeing. When EDAM was heated in air, oxygen accelerated thermal decompn. of the DAM moiety of EDAM at 150°, leaving polyethylene as the residue. This reaction did not affect the melt in extruder, in a capillary rheometer, or in fiber spinning of PP/EDAM blends. The steady state viscosity of PP, PP/EDAM blends and EDAM under shear rate 100-104/s at 200° and the first normal stress differences under shear stress of  $3 + 102-104$  Pa at 200° were measured. The entrance flow to a die of length to diam. ratio  $L/D = 0$  in a capillary rheometer was measured to est. the elongational flow effects in the melts. The rheol. behavior of PP/EDAM blends up to 20% EDAM resembles that of PP, while rheol. parameters of the PP/EDAM 50/50 blend resembles those of EDAM. TEM of microtomed sections of the capillary extrudates of PP/EDAM 80/20 blend indicate morphol. consisting of EDAM islands in PP, while the 50/50 blend consists of PP islands in EDAM. The optimum EDAM content in blends for fiber applications was detd. to be less than 10%. Addn. of sodium stearate to the PP/EDAM blends prior to spinning, resulted in improved penetration of dyestuff into the fibers. Use of potassium salts of alkylphosphates [Electrostripper K] in dye baths led to improved color fastness and provided antistatic finish to dyed fibers.

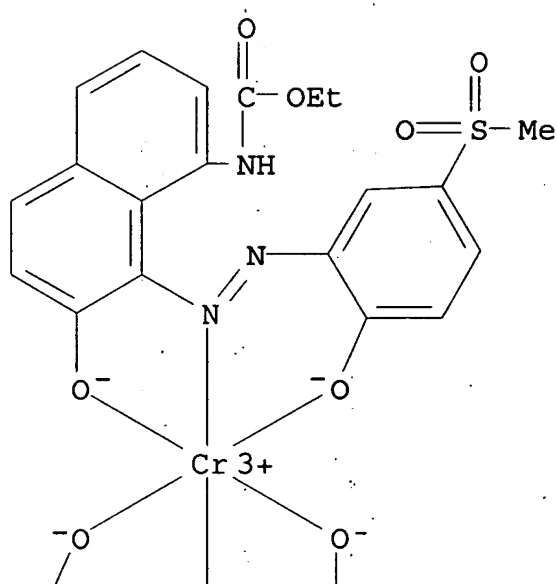
IT 12218-94-9, Lanyl Grey BG

RL: TEM (Technical or engineered material use); USES (Uses)  
(effects of EDAM blending on morphol. and on melt spinning and dyeing of polypropylene-EDAM blend fibers)

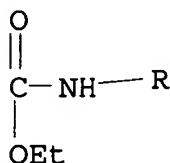
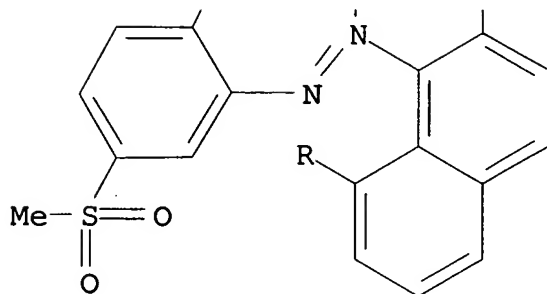
RN 12218-94-9 HCAPLUS

CN Chromate(1-), bis[ethyl [7-hydroxy-8-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-1-naphthalenyl]carbamato(2-)]-, hydrogen, (OC-6-11)- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

●  $\text{H}^+$ 

CC 40-6 (Textiles and Fibers)  
IT 6397-02-0 12218-94-9, Lanyl Grey BG 12220-74-5, Aminyl  
Yellow E-5GN 12239-02-0, Lanyl Yellow RR 12239-05-3, Lanyl Red  
GG 57741-47-6, C.I. Acid Red 266  
RL: TEM (Technical or engineered material use); USES (Uses)  
(effects of EDAM blending on morphol. and on melt spinning and  
dyeing of polypropylene-EDAM blend fibers)

L11 ANSWER 9 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1995:546908 HCAPLUS  
DOCUMENT NUMBER: 122:286067  
TITLE: Reduction of background interferences in the  
molybdate-dye protein assay  
INVENTOR(S): Pugia, Michael J.  
PATENT ASSIGNEE(S): Miles Inc., USA  
SOURCE: U.S., 6 pp.  
CODEN: USXXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1



## PATENT INFORMATION:

PATENT NO. -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE
US 5399498	A	19950321	US 1993-168220	199312 17
CA 2125805	AA	19950618	<-- CA 1994-2125805	199406 14
CA 2125805 EP 658768	C A2	19981208 19950621	<-- EP 1994-119128	199412 05
EP 658768 EP 658768 R: DE, FR, GB, IT AU 9480237	A3 B1 A1	19960110 20000913 19950622	<-- AU 1994-80237	199412 06
AU 679274 JP 07209304	B2 A2	19970626 19950811	<-- JP 1994-311785	199412 15
JP 3524602	B2	20040510	<-- US 1993-168220	A 199312 17

PRIORITY APPLN. INFO.:

AB Disclosed is an improvement to the assay for protein in urine involving the use of a molybdate or tungstate salt and an indicator dye which forms a complex with molybdate or tungstate whose absorption band is shifted in the presence of protein. The improvement involves the use of an ionizable phosphate contg. compd. (I, where 2, 3, 4, and 5 are selected from the group consisting of CH<sub>2</sub>CHOHCHOP(O)(OH)<sub>2</sub> or CHCH<sub>2</sub>OP(O)(OH)<sub>2</sub>; M = H; 1 is any of the above or O and m and n are independently 0 or 1) to reduce background interference caused by constituents normally present in urine.

IT 12218-94-9, Irgalan grey BL

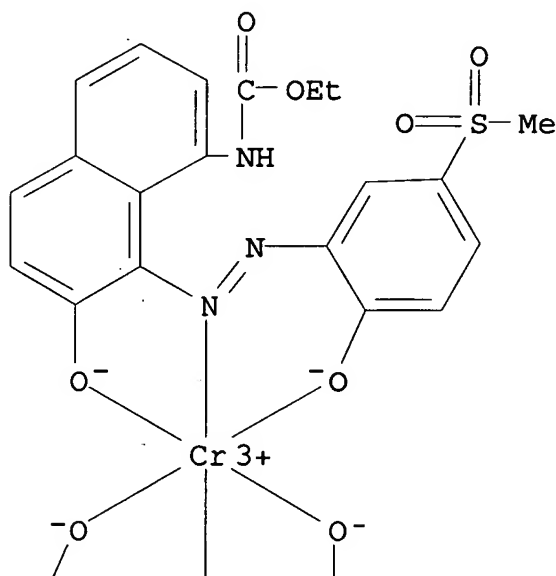
RL: ARG (Analytical reagent use); ANST (Analytical study); USES  
(Uses)

(redn. of background interferences in molybdate-dye protein  
assay)

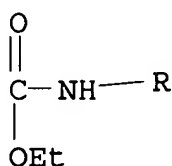
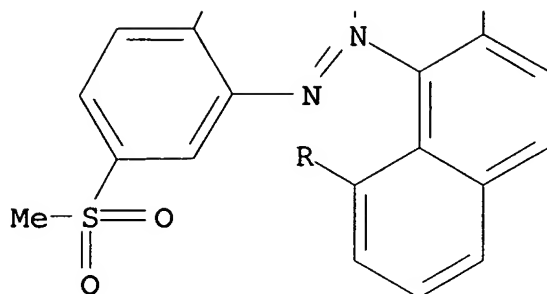
RN 12218-94-9 HCAPLUS

CN Chromate(1-), bis[ethyl [7-hydroxy-8-[[2-hydroxy-5-  
(methylsulfonyl)phenyl]azo]-1-naphthalenyl]carbamato(2-)]-,  
hydrogen, (OC-6-11)- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



IC ICM G01N033-00  
 INCL 436086000  
 CC 9-5 (Biochemical Methods)  
 IT 115-41-3, Pyrocatechol violet 1787-61-7, Eriochrome black T  
 2320-44-7, o-Hydroxyhydroquinonephthalein 4386-25-8 6370-08-7,  
 Neolan blue 2G 6661-29-6 11116-47-5D, Molybdate, salts  
 12218-94-9, Irgalan grey BL 12737-86-9D, Tungstate, salts  
 16574-43-9, Brompyrogallol red 19381-50-1, Naphthol green  
 29817-83-2, Tetrachlorogallein 32638-88-3, Pyrogallol red  
 37336-98-4, Chrome azurol  
 RL: ARG (Analytical reagent use); ANST (Analytical study); USES  
 (Uses)  
 (redn. of background interferences in molybdate-dye protein  
 assay)

L11 ANSWER 10 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1994:79403 HCAPLUS  
 DOCUMENT NUMBER: 120:79403  
 TITLE: Camouflage processed nylon cloth with good  
 waterproofing properties and moisture

INVENTOR(S): permeability  
Yasuda, Kazuo; Wakamatsu, Yoshibumi;  
Higashimoto, Masayuki; Yamada, Ikumitsu  
PATENT ASSIGNEE(S): Boeicho Gijutsu Kenkyu Honbuch, Japan; Unitika  
Ltd; Seiren Co Ltd  
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05222682	A2	19930831	JP 1992-57241	19920212
JP 3094130	B2	20001003	JP 1992-57241	19920212

PRIORITY APPLN. INFO.: <--

AB The title cloth, useful for raincoats, are manufd. by patterning nylon cloth with acid dye-based dyes to form camouflage patterns showing 5-60% multistep reflectivity of 600-1400 nm IR ray, then moisture-permeably waterproof processing on one side of the cloth. Thus, a nylon 6 taffeta was desized, scoured, heat-set, then printed light green, deep green, brown, and black by using acid dyes (each color were not adjoined), steamed, heated, washed with water, soaped, washed, dried, then coated with a polyurethane coating. contg. Crisvon AW 7H, then with waterproof coating contg. Asahiguard 710 (F-contg. waterproofing emulsion), then heat set to give a product showing good waterproofing property and moisture permeability and multistage reflectivity of IR ray.

IT 12218-94-9

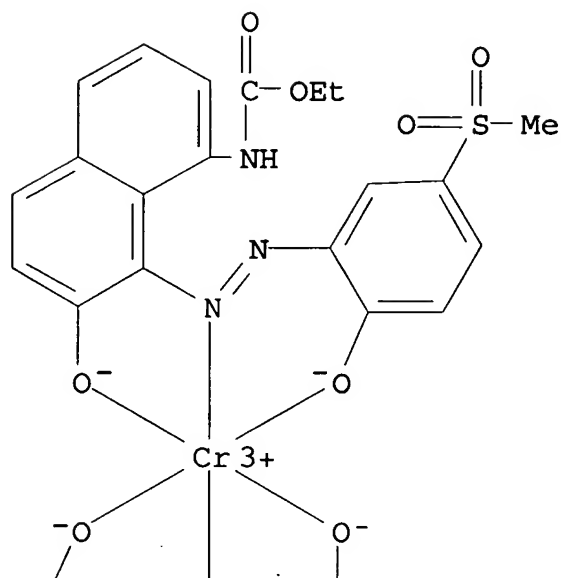
RL: NUU (Other use, unclassified); USES (Uses)

(nylon cloth dyed with, for camouflage pattern, with multistage reflection of IR ray)

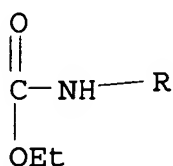
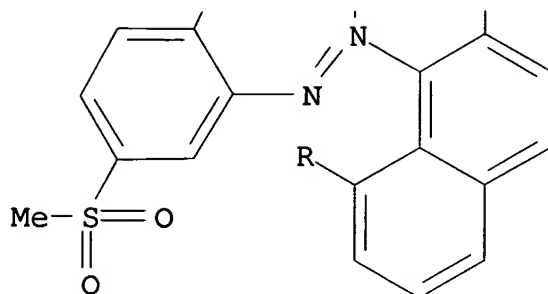
RN 12218-94-9 HCAPLUS

CN Chromate(1-), bis[ethyl [7-hydroxy-8-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-1-naphthalenyl]carbamato(2-)]-, hydrogen, (OC-6-11)- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

● H<sup>+</sup>

IC ICM D06P003-24  
 ICS D06M015-00; D06P003-00  
 CC 40-9 (Textiles and Fibers)  
 IT 3351-05-1 6424-85-7 12217-29-7, C.I. Acid Green 28  
 12218-94-9 12219-72-6, C.I. Acid Brown 289 12220-06-3  
 12235-21-1 57741-47-6 61847-68-5, C.I. Acid Blue 258  
 73384-78-8 104981-56-8, C.I. Acid Orange 149 152443-17-9, C.I.  
 Acid Green 109  
 RL: NUU (Other use, unclassified); USES (Uses)  
 (nylon cloth dyed with, for camouflage pattern, with multistage  
 reflection of IR ray)

L11 ANSWER 11 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1993:673302 HCAPLUS  
 DOCUMENT NUMBER: 119:273302  
 TITLE: Reciprocal action between surfactants and metal  
 complex dyes during wool dyeing  
 AUTHOR(S): Deniz, E.; Thelen, H.; Koll, C.; Kraemer, C.;  
 Wolf, K.  
 CORPORATE SOURCE: Dtsch. Wollforschungsinst., Germany

SOURCE: DWI Reports (1993), 111(Aachener  
Textiltagung, 1992), 471-94  
CODEN: DWIREC; ISSN: 0942-301X

DOCUMENT TYPE: Journal

LANGUAGE: German

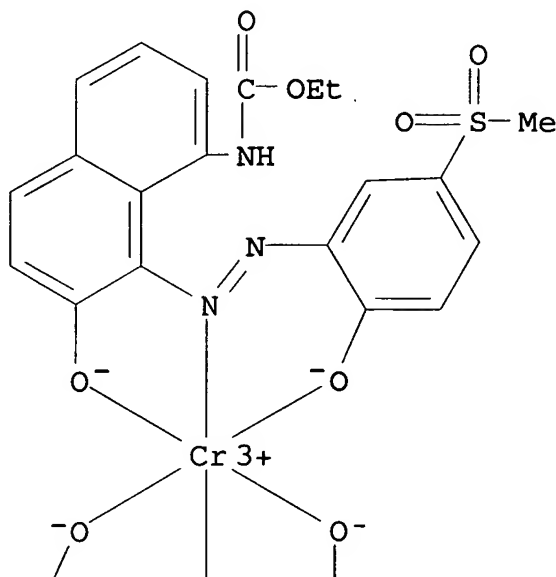
AB The effects of Ethomeen C and S nonionic surfactants and com.  
leveling agents on the dyeing of wool by metal complex acid dyes  
were discussed.

IT 12218-94-9, Irgalan Grey BL  
RL: USES (Uses)  
(wool dyeing with, in presence of leveling agents and nonionic  
surfactants)

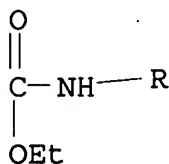
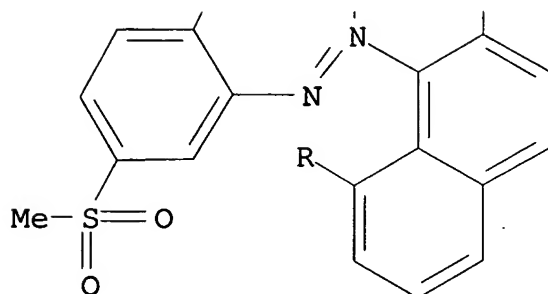
RN 12218-94-9 HCAPLUS

CN Chromate(1-), bis[ethyl [7-hydroxy-8-[[2-hydroxy-5-  
(methylsulfonyl)phenyl]azo]-1-naphthalenyl]carbamato(2-)]-,  
hydrogen, (OC-6-11)- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

●  $\text{H}^+$ 

CC 40-6 (Textiles and Fibers)  
IT 12218-94-9, Irgalan Grey BL 12220-27-8, C.I. Acid Red 279  
151499-54-6, C.I. Acid Red 425  
RL: USES (Uses)  
(wool dyeing with, in presence of leveling agents and nonionic surfactants)

L11 ANSWER 12 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1993:170848 HCAPLUS  
DOCUMENT NUMBER: 118:170848  
TITLE: Study on color uniformity of silk/nylon 66 mixed knittings  
AUTHOR(S): Qian, Jiahe; Ma, Ying  
CORPORATE SOURCE: Suzhou Inst. Silk and Satin, Suzhou, Peop. Rep. China  
SOURCE: Fangzhi Xuebao (1992), 13(2), 65-8, 58  
CODEN: FCHPDI; ISSN: 0253-9721  
DOCUMENT TYPE: Journal  
LANGUAGE: Chinese



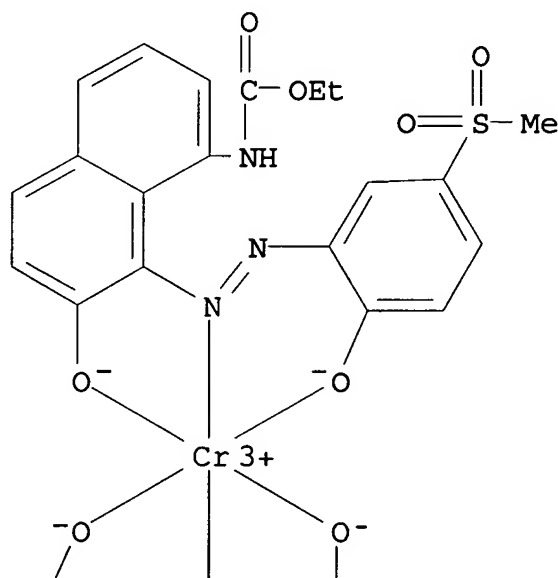
AB Effects of dyeing-process variables on the color uniformity of silk/nylon 66 (I) dyed with direct, weak acidic, and neutral dyes were studied. The color of I was darker than that of the silk for most dyes used, but uniform color could be obtained by adjusting the process variables. Reasonable dyeing procedures were detd. as: pH 5-6, Na<sub>2</sub>SO<sub>4</sub> concn. 20%, temp. 90°, and time 30-50 min. It was very important to use an assistant to inhibit the dyeing of I; Intratex N at concn. 2.0-2.5% was an excellent one.

IT 12218-94-9, Lanasyn Grey BL  
RL: USES (Uses)  
(color uniformity of silk/nylon 66 mixed knittings dyed with)

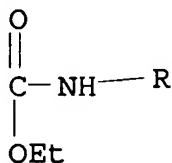
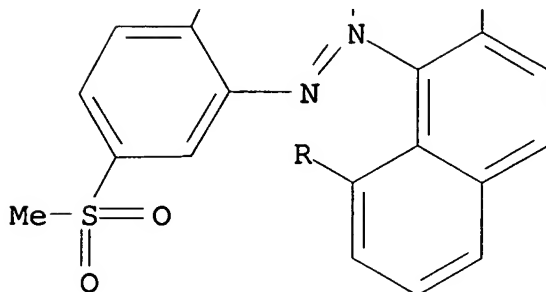
RN 12218-94-9 HCAPLUS

CN Chromate(1-), bis[ethyl [7-hydroxy-8-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-1-naphthalenyl]carbamato(2-)]-, hydrogen, (OC-6-11)-(9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

● H<sup>+</sup>

CC 40-6 (Textiles and Fibers)  
 IT 1937-37-7 2429-76-7 3071-73-6, Weak Acid Black BR 6358-57-2,  
 Nylosan Scarlet F-3GL 6548-30-7 12217-33-3, C.I. Acid Orange 95  
 12218-94-9, Lanasyne Grey BL 12219-48-6, C.I. Acid Blue 247  
 12219-87-3, C.I. Acid Green 40 12238-94-7, Lanyl Brown R  
 12238-96-9, Irgalan Brown 2GL 15792-50-4, Sulfonine Yellow PR  
 61724-28-5, Irganol Orange GRLS 61814-57-1, C.I. Acid Yellow 218  
 61931-04-2, C.I. Acid Blue 278 61931-17-7, C.I. Acid Red 261  
 61968-26-1, C.I. Direct Yellow 132 91254-09-0, C.I. Acid Red 399  
 94945-17-2, C.I. Acid Blue 61:1 97199-27-4, Isolan Brown S-GL  
 104981-56-8, Kayanol Milling Yellow RW 146836-85-3, C.I. Acid  
 Brown 413 146838-11-1, Weak Acid Yellow 3GN  
 RL: USES (Uses)  
 (color uniformity of silk/nylon 66 mixed knittings dyed with)

L11 ANSWER 13 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1993:23665 HCAPLUS  
 DOCUMENT NUMBER: 118:23665  
 TITLE: Dye resist effects on sulfamic-acid-treated wool  
 AUTHOR(S): Jeon, B. D.; Palithorpe, M. T.; David, S. K.

CORPORATE SOURCE: Dep. Text. Technol., Univ. New South Wales,  
Kensington, 2033, Australia

SOURCE: Dyes and Pigments (1992), 19(2),  
99-111

CODEN: DYPIDX; ISSN: 0143-7208

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Dye resist effects achieved on sulfamic acid (I)-treated wool were studied with respect to curing temp. and dyestuff type. There was a significant difference between the pH of aq. exts. from I-treated wool cured at 100°, 125°, and 150°. The results from dye exhaustion studies indicated that, for curing temps. <140°, unbound free I was desorbed from the wool. The desorbed I then changed dyebath pH which, in turn, changed the resist effect achieved. Only when I was cured at >140° did complete reaction/pyrolysis of I take place, giving the best dye resist effect. Overall it appeared that the dye resist effect was highly dependent on the hydrophilic/hydrophobic character of the dyestuffs and substrate. The Inorganicity-Organicity Ratio values of the dyes could be used to quantify dye resist effects on I-treated wool.

IT 145036-79-9

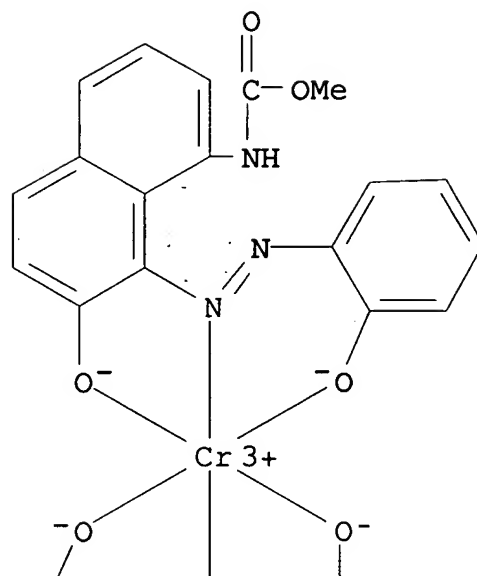
RL: USES (Uses)

(sulfamic acid-treated wool dyed with, dye resist effect in relation to)

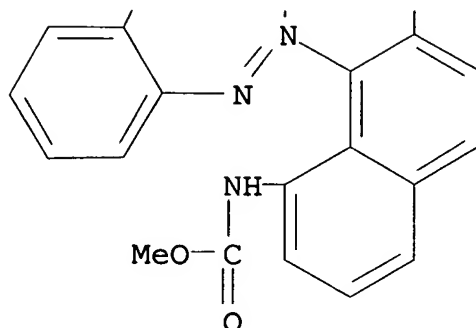
RN 145036-79-9 HCAPLUS

CN Chromate(1-), bis[methyl [7-hydroxy-8-[(2-hydroxyphenyl)azo]-1-naphthalenyl]carbamato(2-)]-, hydrogen (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

● H<sup>+</sup>

CC 40-6 (Textiles and Fibers)  
IT 915-67-3, Amaranth 1658-56-6, Acid Red 88 2766-77-0 3734-67-6  
5850-44-2 39291-18-4, Carbolan Crimson BS 68252-85-7  
145036-79-9

RL: USES (Uses)

(sulfamic acid-treated wool dyed with, dye resist effect in relation to)

L11 ANSWER 14 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1992:552681 HCAPLUS

DOCUMENT NUMBER: 117:152681

TITLE: Dye-resist effects on silk fabric treated with sulfamic acid and Sandospace R

AUTHOR(S): Supriyatna, I. N.; David, S. K.

CORPORATE SOURCE: Dep. Text. Technol., Univ. New South Wales, Kensington, 2033, Australia

SOURCE: Dyes and Pigments (1992), 18(4), 297-308

CODEN: DYPIDX; ISSN: 0143-7208

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The reactive mols. sulfamic acid (I) and Sandospace R (II) were applied to silk fabrics, and their resp. capacity to resist the fixation of acid, metal complex, and reactive dyes were compared. Wt. gains of 2-8% for I-treated silk were easily obtained by a pad-dry-cure process and the treated silk exhibited excellent resist effects towards all 3 classes of dyes. High wt. gains were more

difficult to obtain during exhaustion of II onto silk fabrics and, consequently, dye-resist effects achieved with this reactive agent were inferior to those of I for practical treatment levels. The strength retention, yellowness index, and subjective handle of the treated fabrics were also assessed.

IT 38967-24-7

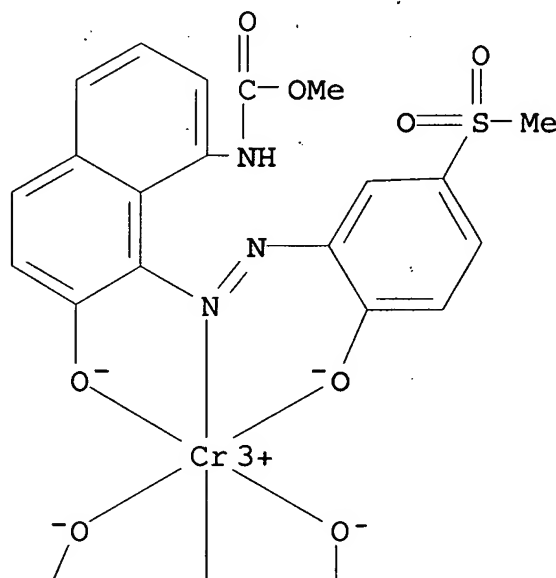
RL: USES (Uses)

(dyeing resist with, of silk fabric treated with sulfamic acid and Sandospace R)

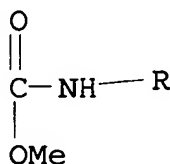
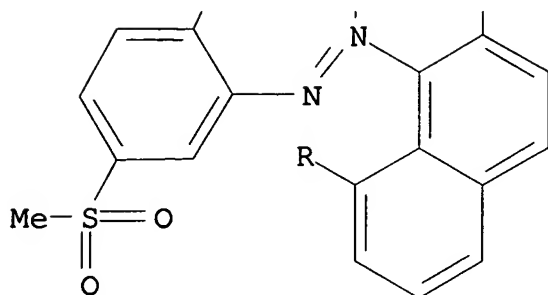
RN 38967-24-7 HCAPLUS

CN Chromate(1-), bis[methyl [7-hydroxy-8-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-1-naphthalenyl]carbamato(2-)]- (9CI)  
(CA INDEX NAME)

PAGE 1-A



PAGE 2-A



CC 40-6 (Textiles and Fibers)

IT 38967-24-7 52683-87-1 63246-93-5 143554-68-1

RL: USES (Uses)

(dyeing resist with, of silk fabric treated with sulfamic acid  
and Sandospace R)

L11 ANSWER 15 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1987:498544 HCAPLUS

DOCUMENT NUMBER: 107:98544

TITLE: Solubility and color fastness of dyes for  
leather craft

AUTHOR(S): Ikeda, Setuko; Urabe, Sumiko

CORPORATE SOURCE: Sagami Women's Univ., Kanagawa, Japan

SOURCE: Hikaku Kagaku (Chemistry) (1987),  
32(4), 193-9

CODEN: HIKAAF; ISSN: 0018-1811

DOCUMENT TYPE: Journal

LANGUAGE: Japanese

AB Vegetable-tanned leather and syntan-tanned white leather were  
colored with 14 metal complex (acid) dyes and 11 basic dyes. Soly.  
according to IUF-201, applied quantity, and penetration of dye into  
leather were detd. Color fastness tests were made (JIS) and light  
fastness and rubbing fastness were examd. Most (90%) of the dye  
examd. were sol. up to 50 g/L. Dyes with high soly. showed high  
penetration. Lightfastness testing showed that half of the basic

dyes were of low fastness (1.apprx.2 grade), and more than half of the metal complex dyes were of higher fastness ( $\leq 7.5$ ). Rubbing fastness became higher when the dyed leather was finished with a lacquer coating. Soly. and penetration had little effect on lightfastness.

IT 12218-94-9

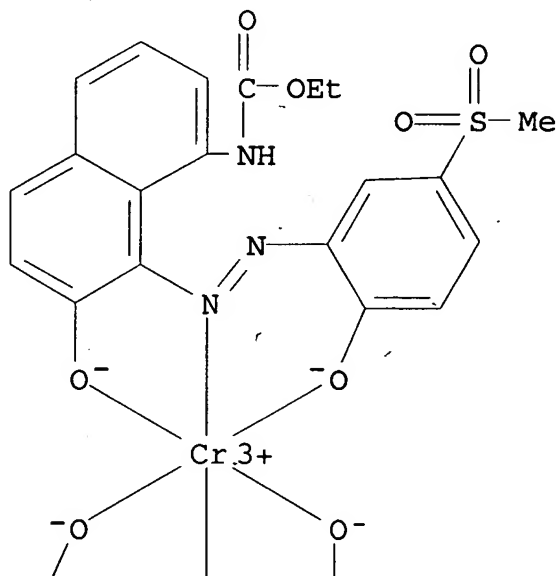
RL: USES (Uses)

(soly. and color fastness of, for leather)

RN 12218-94-9 HCAPLUS

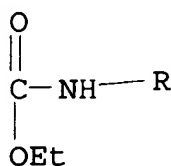
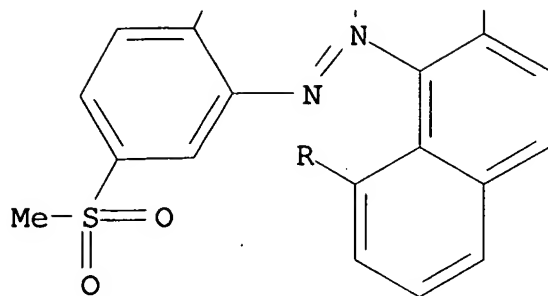
CN Chromate(1-), bis[ethyl [7-hydroxy-8-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-1-naphthalenyl]carbamato(2-)]-, hydrogen, (OC-6-11)-(9CI) (CA INDEX NAME)

PAGE 1-A





PAGE 2-A

● H<sup>+</sup>

CC 45-2 (Industrial Organic Chemicals, Leather, Fats, and Waxes)  
 IT 61-73-4, C.I. Basic Blue 9 81-88-9, C.I. Basic Violet 10  
 477-73-6, C.I. Basic Red 2 569-64-2, C.I. Basic Green 4  
 633-03-4, C.I. Basic Green 1 4208-80-4 4438-16-8, C.I. Basic  
 Orange 1 5601-29-6, C.I. Acid Yellow 129 8005-03-6 8005-77-4,  
 C.I. Basic Brown 1 12216-97-6, C.I. Acid Blue 225 12216-99-8,  
 C.I. Acid Red 302 12218-94-9 12219-01-1, C.I. Acid Black  
 131 12219-88-4 12234-73-0, C.I. Acid Brown 19 12238-96-9, C.I.  
 Acid Brown 44 12777-30-9, C.I. Acid yellow 125 61723-98-6, C.I.  
 Acid blue 187 61724-28-5, C.I. Acid Orange 94 61724-36-5, C.I.  
 Acid Red 219 61724-42-3, C.I. Acid Red 258 61724-47-8, C.I. Acid  
 Violet 73 110069-16-4 110069-17-5

RL: USES (Uses)

(soly. and color fastness of, for leather)

L11 ANSWER 16 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN

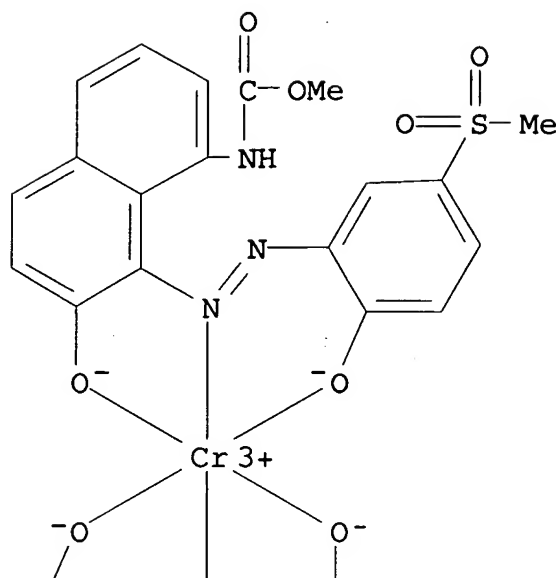
ACCESSION NUMBER: 1987:441587 HCAPLUS

DOCUMENT NUMBER: 107:41587

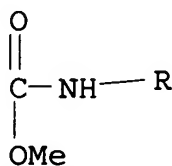
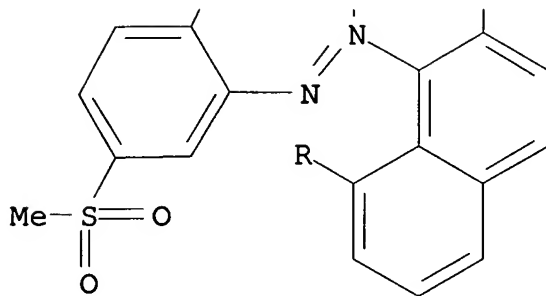
TITLE: A study of dyestuff aggregation. Part III. The  
 effect of levelling agents on the aggregation of

some anionic dyes  
AUTHOR(S): Datyner, A.; Pailthorpe, M. T.  
CORPORATE SOURCE: Sch. Fibre Sci. Technol., Univ. New South Wales,  
Kensington, 2033, Australia  
SOURCE: Dyes and Pigments (1987), 8(4), 253-63  
CODEN: DYPIDX; ISSN: 0143-7208  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
AB The disaggregating properties of four commonly used dye leveling  
agents and of urea, in combination with a range of five anionic wool  
dyes, were detd. at 55° and 95°. Urea was the only  
compd. investigated which very effectively disaggregated all of the  
dyes studied. The disaggregating properties of the leveling agents  
depended on specific dye-leveling agent interactions.  
IT 71598-34-0  
RL: USES (Uses)  
(aggregation of, effect of leveling agents on)  
RN 71598-34-0 HCAPLUS  
CN Chromate(1-), bis[methyl [7-(hydroxy-κO)-8-[[2-(hydroxy-  
κO)-5-(methylsulfonyl)phenyl]azo-κN1]-1-  
naphthalenyl]carbamato(2-)]-, hydrogen (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

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CC 40-6 (Textiles and Fibers)  
 IT 1324-53-4, C.I. Acid blue 138 6408-57-7, C.I. Acid green 27  
 52584-47-1 56141-59-4 **71598-34-0**  
 RL: USES (Uses)  
 (aggregation of, effect of leveling agents on)

L11 ANSWER 17 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1987:424753 HCAPLUS  
 DOCUMENT NUMBER: 107:24753  
 TITLE: Dyeable  $\alpha$ -olefin polymer fibers  
 INVENTOR(S): Omae, Tadayuki; Yamaguchi, Noboru  
 PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

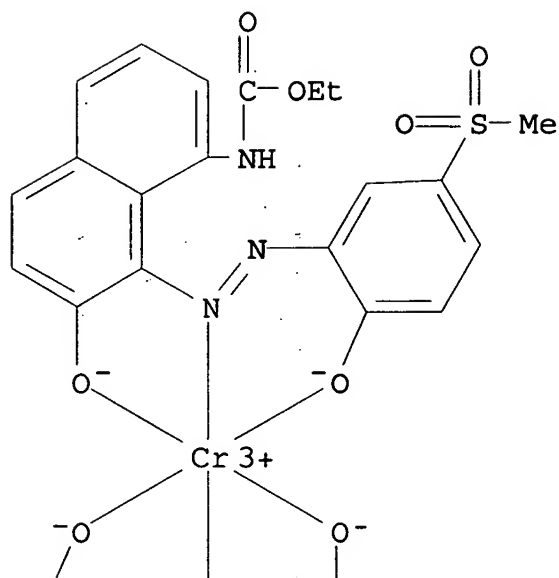
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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MEI HUANG EIC1700 REM4B28 571-272-3952

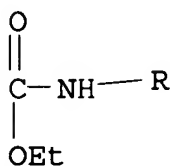
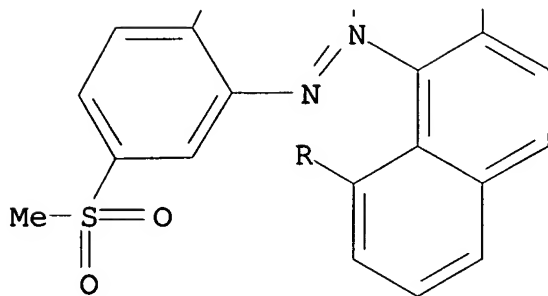
03/03/2006



PAGE 1-A



PAGE 2-A

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IC ICM C08L023-00  
 ICS C08K005-00  
 ICI C08L023-00, C08L023-08; C08K005-00, C08K005-09, C08K005-17  
 CC 40-6 (Textiles and Fibers)  
 Section cross-reference(s): 38  
 IT 6397-02-0, C.I. Acid Blue 129 12218-94-9, C.I. Acid Black  
 58 12220-74-5, C.I. Acid Yellow 110 12239-05-3, C.I. Acid Red  
 211

RL: USES (Uses)

(dyeing of polyolefin-dialkylaminoalkyl acrylate copolymer  
 bicomponent fibers contg. dialkylamine compds. with)

L11 ANSWER 18 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1987:408852 HCAPLUS  
 DOCUMENT NUMBER: 107:8852  
 TITLE: Dyeable  $\alpha$ -olefin polymer fibers  
 INVENTOR(S): Omae, Tadayuki; Yamaguchi, Noboru  
 PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokyo Koho, 9 pp.  
 CODEN: JKXXAF

DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 62018448	A2	19870127	JP 1985-157548	198507 16

PRIORITY APPLN. INFO.:

<--  
JP 1985-157548

198507  
16

AB Fibers having good dyeability are prepd. from mixts. of  $\alpha$ -olefin polymers, dialkylaminoalkyl acrylate polymers, soaps 0.1-8, and fatty amides. Fibers having good dyeability were prepd. from a mixt. of Noblen FL 800 92, 26:74 dimethylaminoethyl acrylate-ethylene copolymer 5, 5:30:65 Na myristate-Na palmitate-Na stearate mixt. 1, and [C<sub>17</sub>H<sub>35</sub>CONH(CH<sub>2</sub>)<sub>3</sub>]<sub>2</sub>NMe 2%.

IT 12218-94-9, C.I. Acid black 58

RL: USES (Uses)

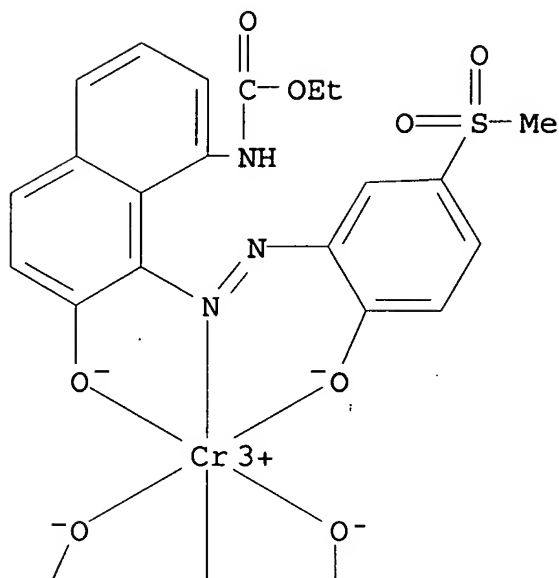
(dyeing of polyolefin fibers by, additives for)

RN 12218-94-9 HCAPLUS

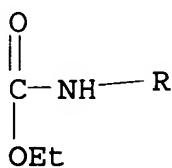
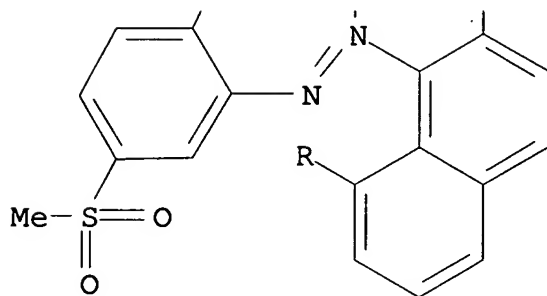
CN Chromate(1-), bis[ethyl [7-hydroxy-8-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-1-naphthalenyl]carbamato(2-)]-, hydrogen, (OC-6-11)- (9CI) (CA INDEX NAME)



PAGE 1-A



PAGE 2-A

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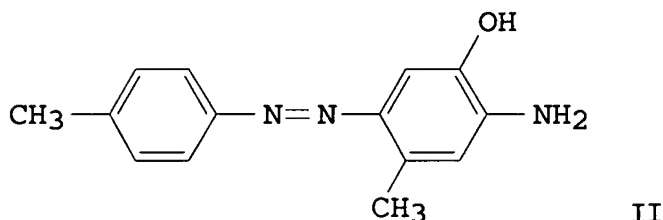
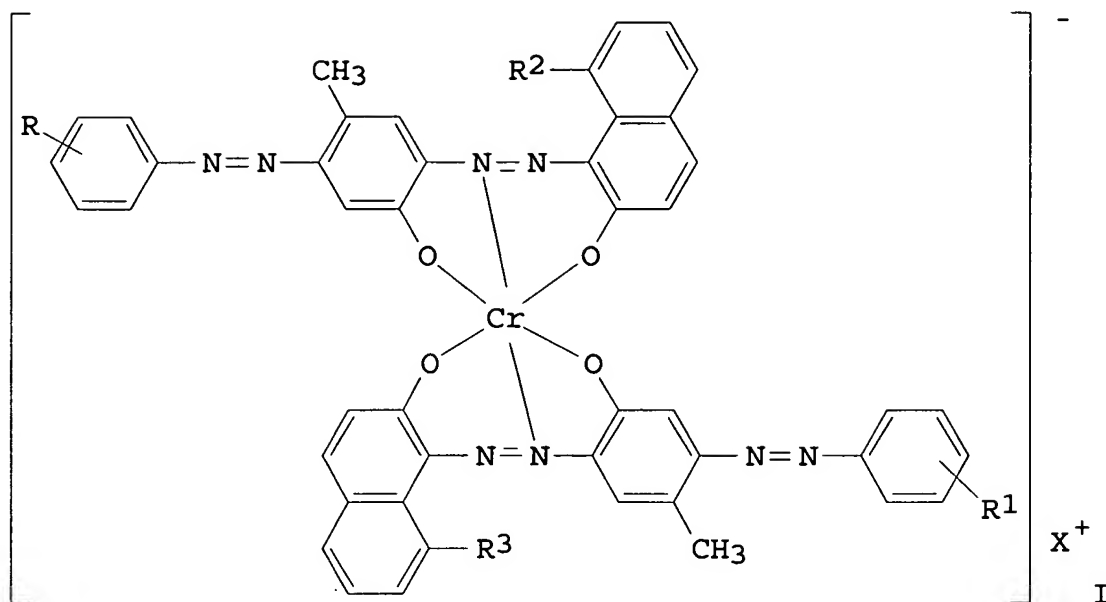
IC ICM C08L023-00  
 ICS C08K005-00  
 ICI C08L023-00, C08L023-08; C08K005-00, C08K005-09, C08K005-20  
 CC 40-6 (Textiles and Fibers)  
 Section cross-reference(s): 38  
 IT 6397-02-0, C.I. Acid blue 129 12218-94-9, C.I. Acid black  
 58 12220-74-5, C.I. Acid yellow 110 12239-05-3, C.I. Acid red  
 211  
 RL: USES (Uses)  
 (dyeing of polyolefin fibers by, additives for)

L11 ANSWER 19 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1986:442512 HCAPLUS  
 DOCUMENT NUMBER: 105:42512  
 TITLE: Near-infrared-absorbing metal complex salts  
 INVENTOR(S): Kawasaki, Shinjiro; Nishii, Hiroshi; Hino, Hideomi  
 PATENT ASSIGNEE(S): Taoka Chemical Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.  
 CODEN: JKXXAF

DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 61015891	A2	19860123	JP 1984-136869	198407 02
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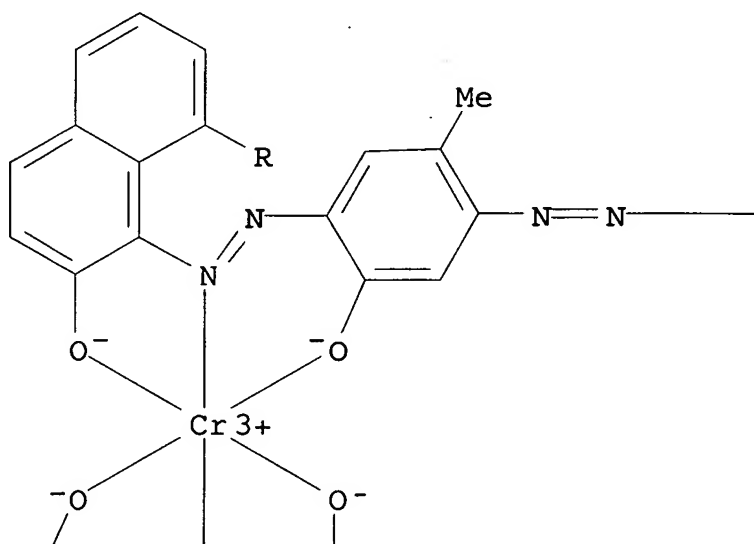
GI



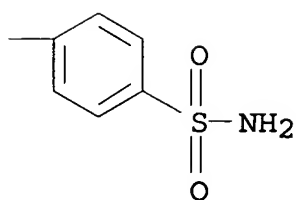
- AB Title salts I [R, R1 = C1-4 alkyl, (substituted) sulfamoyl; R2, R3 = NH2, NHAc, NHCO2Me, NHCO2Et, NHMe, NHet; X = H, Na, K, NH4, (substituted) aliph. ammonium, alicyclic ammonium], with excellent heat and light stability, thin-layer reproducibility, and high sensitivity, useful as pigments in recording layers of optical disks (no data), were prepd. Thus, 39.5 g II was diazotized and coupled with 21 g 1-acetamido-7-naphthol in methyl Cellosolve contg. NaOH at 5-10° for 3.5 h to give 40 g bisazo black pigment, which was stirred with Cr acetate in ethylene glycol contg. AcOH at 105-110° for 2 h to give 40 g black powd. I (R = R1 = 4-Me; R2 = R3 = NHAc; X = Na) having absorption max. in DMF at 730 nm.
- IT 103017-15-8P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. and near-IR-absorbing properties of)
- RN 103017-15-8 HCAPLUS

CN Chromate(1-), bis[methyl [8-[[4-[[4-(aminosulfonyl)phenyl]azo]-2-hydroxy-5-methylphenyl]azo]-7-hydroxy-1-naphthalenyl]carbamato(2-)]-, sodium (9CI) (CA INDEX NAME)

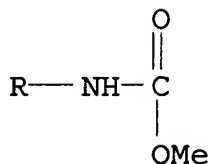
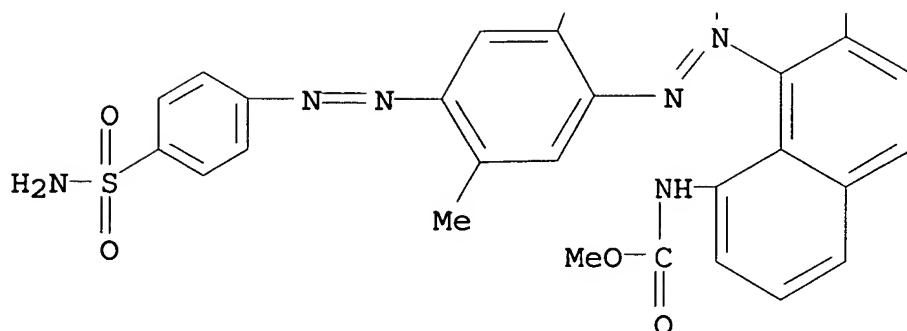
PAGE 1-A



PAGE 1-B



PAGE 2-A

● Na<sup>+</sup>

IC ICM C07F011-00  
 ICS C09K003-00; G02B005-22; G11B007-24  
 CC 25-24 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
 Section cross-reference(s): 41, 74  
 IT 103017-11-4P 103017-12-5P 103017-13-6P 103017-14-7P  
 103017-15-8P 103017-16-9P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. and near-IR-absorbing properties of)  
  
 L11 ANSWER 20 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1985:543308 HCAPLUS  
 DOCUMENT NUMBER: 103:143308  
 TITLE: Dyeing synthetic polyamide fibers  
 INVENTOR(S): Salathe, Heinz; Flensberg, Hermann; Schaetzer, Harry  
 PATENT ASSIGNEE(S): Ciba-Geigy A.-G. , Switz.  
 SOURCE: Eur. Pat. Appl., 74 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 135198	A2	19850327	EP 1984-111089	19840917
EP 135198	A3	19850612		
EP 135198	B1	19890510		
R: BE, CH, DE, FR, GB, IT, LI				
US 4563192	A	19860107	US 1984-651034	19840914
JP 60088186	A2	19850517	JP 1984-194924	19840919
PRIORITY APPLN. INFO.:			CH 1983-5080	A 19830919

AB Synthetic polyamide fibers are dyed level, fast shades in aq. baths with  $\geq 1$  anionic dye which has a 1/1 dyeing depth (DIN 54000) and a degree of exhaustion of  $>95\%$ , and an auxiliary mixt. contg. anionic compd., a quaternary compd., and a nonionic compd. This bath contains an alkali salt and an org. acid and the dyeing takes place at pH 5-7 and bath temp. 95-130°. Thus, a bath was prepd. contg. acetic acid, NaOAc, Na<sub>2</sub>SO<sub>4</sub>, and an auxiliary mixt. contg. ethoxylated oleyl alc., ethoxylated amine sulfate ammonium salt, ethoxylated quaternary ammonium salts, and an ethoxylated polyamine. To this bath were added 5 anionic azo dyes and 1 anionic anthraquinone dye, and it was used to dye a polyamide 66 textured tricot at 98° for 45 min. The polyamide 66 was dyed a brown shade, and the dyebath had a degree of exhaustion of 98%.

IT 71839-85-5 94233-13-3

RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(dyeing with mixts. contg., of polyamide fibers)

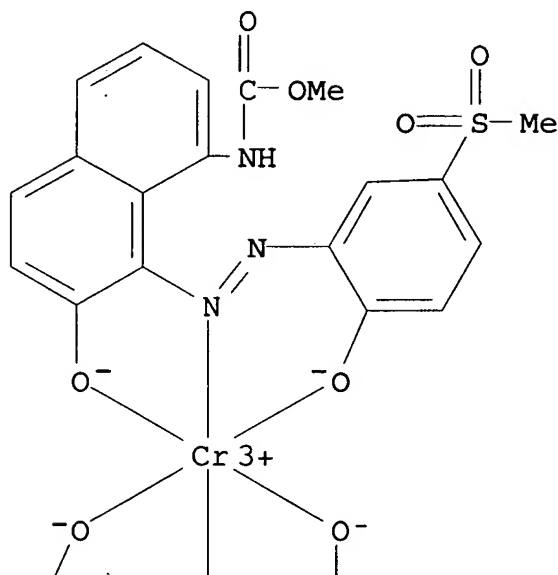
RN 71839-85-5 HCAPLUS

CN Chromate(1-), bis[methyl [7-(hydroxy-κO)-8-[[2-(hydroxy-κO)-5-(methylsulfonyl)phenyl]azo-κN1]-1-

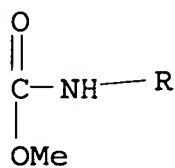
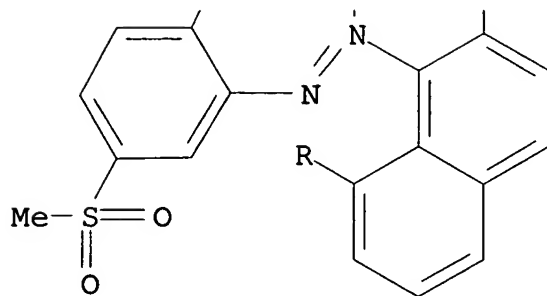


naphthalenyl]carbamato(2-)]-, sodium (9CI) (CA INDEX NAME)

PAGE 1-A

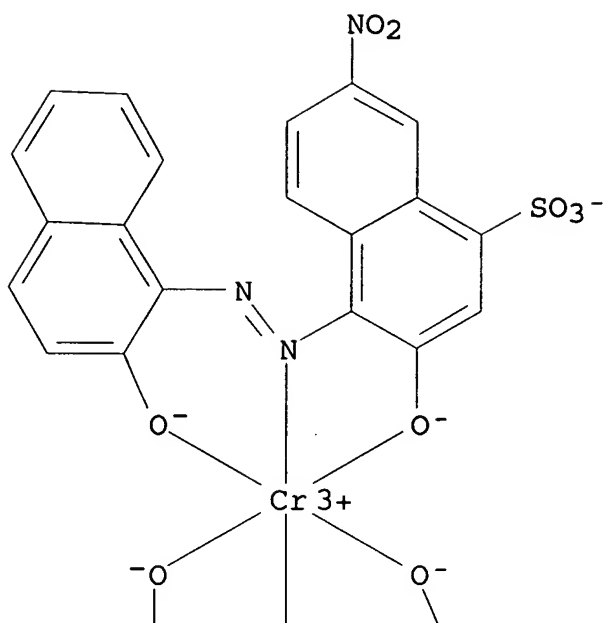


PAGE 2-A

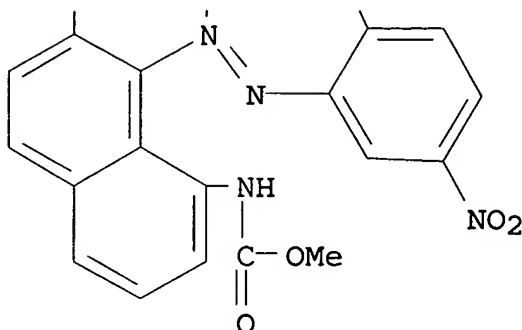


RN 94233-13-3 HCAPLUS  
 CN Chromate(2-), [3-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-7-nitro-1-naphthalenesulfonato(3-)] [methyl [7-hydroxy-8-[(2-hydroxy-5-nitrophenyl)azo]-1-naphthalenyl]carbamato(2-)]-, disodium (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

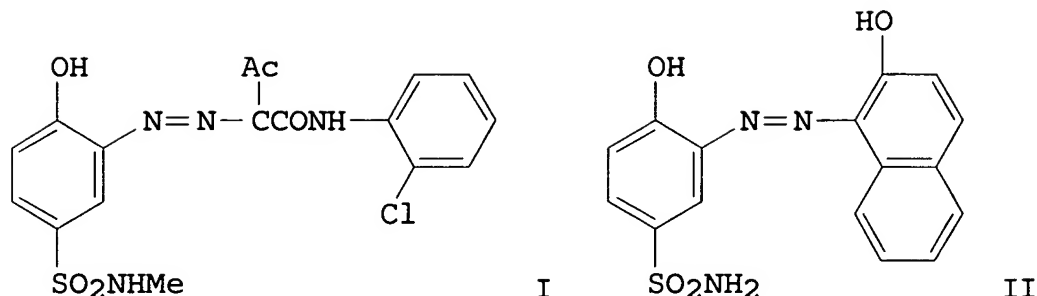
●2 Na<sup>+</sup>

IC ICM D06P003-24  
ICS D06P001-607  
CC 40-6 (Textiles)  
IT 25305-63-9 25305-85-5 41741-86-0 51147-75-2 52333-29-6  
52587-68-5 56819-40-0 57693-14-8 67109-27-7 68541-71-9  
70209-87-9 70236-49-6 70236-55-4 70236-57-6 70236-59-8  
70236-60-1 70247-76-6 71839-85-5 72017-66-4  
72403-66-8 73612-41-6 83833-37-8 84045-68-1 84145-95-9  
93804-38-7 94159-06-5 94233-13-3 98420-19-0  
98420-20-3 98420-21-4 98447-65-5 98447-66-6 98447-67-7  
98447-68-8 98447-69-9 98447-70-2

RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(dyeing with mixts. contg., of polyamide fibers)

L11 ANSWER 21 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1984:631888 HCAPLUS  
DOCUMENT NUMBER: 101:231888  
TITLE: Dyeing and printing of polyamide fibers  
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.  
SOURCE: Jpn. Kokai Tokkyo Koho, 44 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO. -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE
JP 59140264	A2	19840811	JP 1984-3692	198401 13
EP 124679	A1	19841114	<-- EP 1984-100196	198401 10
EP 124679 R: BE, CH, DE, FR, GB, IT, LI, NL DK 8400135	B1 A	19871111 19840714	<-- DK 1984-135	198401 12
AU 8423241	A1	19840719	<-- AU 1984-23241	198401 12
AU 572487 ZA 8400241	B2 A	19880512 19840829	<-- ZA 1984-241	198401 12
US 4553976	A	19851119	<-- US 1984-570255	198401 12
CA 1229205	A1	19871117	<-- CA 1984-445209	198401 12
PRIORITY APPLN. INFO.:			<-- CH 1983-176	A 198301 13
			<-- US 1983-470493	A2 198302 28
OTHER SOURCE(S): GI		MARPAT 101:231888	<--	



AB Metalized azo dye and anthraquinone dye mixts. requiring very short steaming time for fixation on polyamide fibers are disclosed. Thus, a mixed 1:2 metal complex dye was formed by treating 1:1 Cr complex of 1,6,2,4-H<sub>2</sub>N(O<sub>2</sub>N)(HO)C<sub>10</sub>H<sub>4</sub>SO<sub>3</sub>H → 2-C<sub>10</sub>H<sub>7</sub>OH with 2,5-H<sub>2</sub>N(O<sub>2</sub>N)C<sub>6</sub>H<sub>3</sub>OH → 2-C<sub>10</sub>H<sub>7</sub>OH, 2,4-H<sub>2</sub>N(O<sub>2</sub>N)C<sub>6</sub>H<sub>3</sub>OH → 2,8-HOC<sub>10</sub>H<sub>6</sub>NHCO<sub>2</sub>Me, and 2,4,6-H<sub>2</sub>N(O<sub>2</sub>N)2C<sub>6</sub>H<sub>2</sub>OH → 2-C<sub>10</sub>H<sub>7</sub>OH. A nylon carpet was printed with a paste contg. 1:2 Co-I complex [93293-58-4] 0.5, 1:2 Co-II complex [50525-57-0] 1, and the above dye mixt. 0.1 part and steamed at 101° for 2 min to obtain a fast bordeaux print with distinct borders.

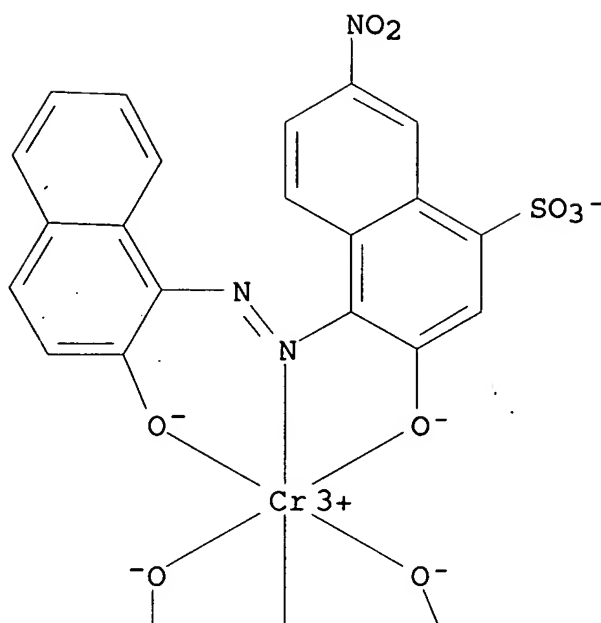
IT 93293-65-3

RL: TEM (Technical or engineered material use); USES (Uses)  
(dye mixts. contg., for printing of polyamide fabrics and  
carpets, with short fixation time)

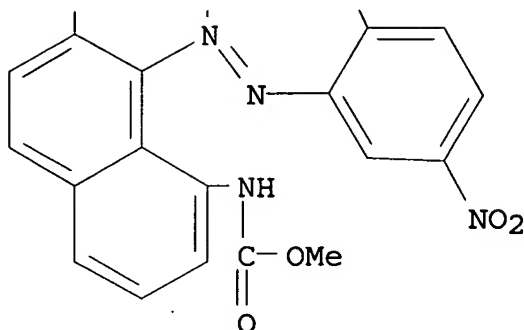
RN 93293-65-3 HCAPLUS

CN Chromate(2-), [3-hydroxy-4-[(2-hydroxy-1-naphthalenyl)azo]-7-nitro-1-naphthalenesulfonato(3-)] [methyl [7-hydroxy-8-[(2-hydroxy-5-nitrophenyl)azo]-1-naphthalenyl]carbamato(2-)]-, dihydrogen (9CI)  
(CA INDEX NAME)

PAGE 1-A



PAGE 2-A

● 2 H<sup>+</sup>

IC C09B045-00; D06P003-24  
 CC 40-6 (Textiles)  
 IT 13011-62-6 30112-70-0 50497-83-1 50525-57-0 52256-36-7  
 52256-37-8 52953-40-9 55963-70-7 68834-02-6 69721-06-8  
 70703-37-6 70776-97-5 71566-34-2 72797-03-6 72797-08-1  
 72987-10-1 73018-85-6 82980-51-6 91277-58-6 93267-48-2  
 93267-49-3 93267-50-6 93267-51-7 93267-52-8 93267-53-9  
 93267-54-0 93267-55-1 93267-56-2 93267-58-4 93267-59-5  
 93267-60-8 93267-61-9 93293-55-1 93293-56-2 93293-57-3  
 93293-65-3 93293-66-4 93293-67-5 93338-23-9  
 93471-42-2 93471-43-3

RL: TEM (Technical or engineered material use); USES (Uses)  
 (dye mixts. contg., for printing of polyamide fabrics and  
 carpets, with short fixation time)

L11 ANSWER 22 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1984:613017 HCAPLUS  
 DOCUMENT NUMBER: 101:213017  
 TITLE: The study on the solubility of dyes for leather  
 craft. II. Fading of metal-containing acid dyes  
 AUTHOR(S): Ikeda, Setsuko  
 CORPORATE SOURCE: Sagami Women's Univ., Sagami, Japan  
 SOURCE: Sagami Joshi Daigaku Kiyo (1983), 47,  
 163-73  
 CODEN: SJDKA2; ISSN: 0286-6250  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Japanese



AB Leather samples (tanned cowhide, white leather, Kaburon) dyed with 14 title dyes (yellow, orange, red, violet, green, brown blue, green, black) were subjected to indoor (with an without air conditioning) and outdoor exposure tests for 35 days with color difference measurements and visual observations for fading. Light colored samples were more susceptible to fading, and fading was most severe in outdoor tests. Fading was also dependent on the type of substrate in the order of cowhide > white leather > kaburon. Dyes with higher soly. faded less, except that blue dyes with high soly. faded significantly.

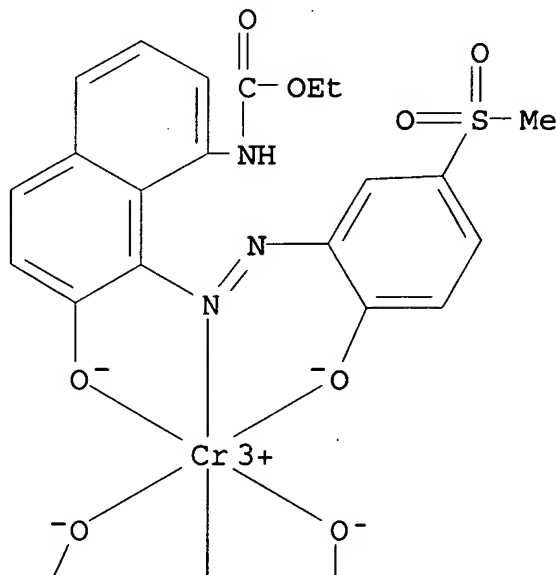
IT 12218-94-9

RL: RCT (Reactant); RACT (Reactant or reagent)  
(fading of, in leathers)

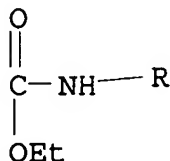
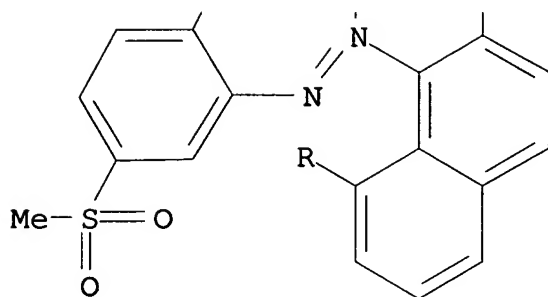
RN 12218-94-9 HCAPLUS

CN Chromate(1-), bis[ethyl [7-hydroxy-8-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-1-naphthalenyl]carbamato(2-)]-, hydrogen, (OC-6-11)- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

● H<sup>+</sup>

CC 45-2 (Industrial Organic Chemicals, Leather, Fats, and Waxes)  
 Section cross-reference(s): 41  
 IT 5601-29-6 12216-97-6 **12218-94-9** 12218-96-1  
 12219-88-4 12234-73-0 12238-96-9 12777-30-9 61723-98-6  
 61724-28-5 61724-36-5 61724-42-3 61724-47-8 93196-24-8  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (fading of, in leathers)

L11 ANSWER 23 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1984:597459 HCAPLUS  
 DOCUMENT NUMBER: 101:197459  
 TITLE: Removal of dyes used in the textile industry  
 from solutions by adsorption on natural  
 aluminosilicates  
 AUTHOR(S): Dosen-Sver, Dubravka; Parac-Osterman, Djurdja;  
 Fiser-Jakic, Lelja  
 CORPORATE SOURCE: Tehnol. Fak., Sveucil. Zagrebu, Zagreb,  
 Yugoslavia

SOURCE: Hemijska Industrija (1984), 38(6),  
179-83  
CODEN: HMIDA8; ISSN: 0367-598X

DOCUMENT TYPE: Journal

LANGUAGE: Serbo-Croatian

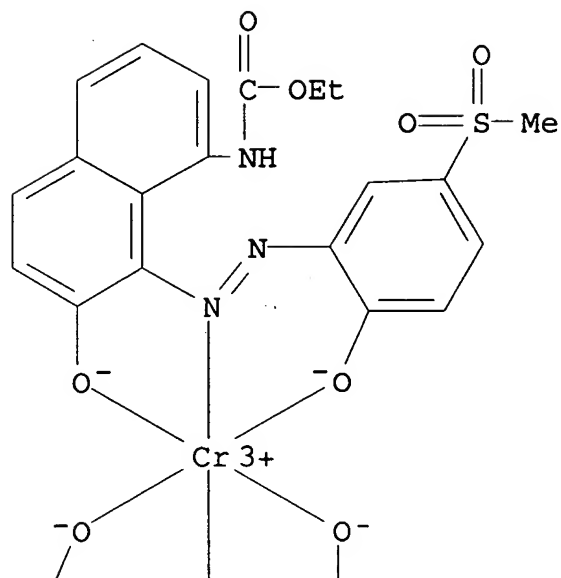
AB Aluminosilicates with a high content of montmorillonite [1318-93-0]  
and aluminosilicates with a high content of amorphous SiO<sub>2</sub> were  
effective in the removal of water-sol. dyes (used in the textile  
industry) of the acidic, basic, and metal complex types; the  
montmorillonite-contg. aluminosilicates showed stronger bonding with  
the dyes. Wastewater treatment and dye recovery were discussed.

IT 12218-94-9  
RL: REM (Removal or disposal); PROC (Process)  
(removal of, from textile dyeing wastewater by adsorption by  
aluminosilicates)

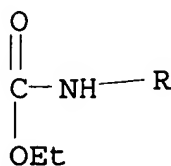
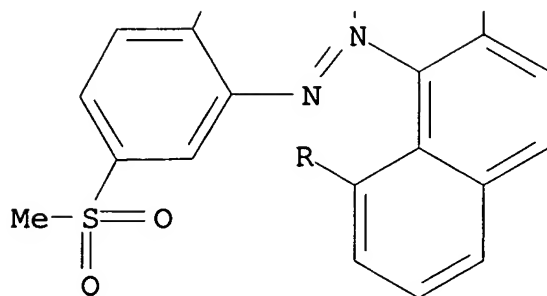
RN 12218-94-9 HCAPLUS

CN Chromate(1-), bis[ethyl [7-hydroxy-8-[[2-hydroxy-5-  
(methylsulfonyl)phenyl]azo]-1-naphthalenyl]carbamato(2-)]-,  
hydrogen, (OC-6-11)- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

● H<sup>+</sup>

CC 60-3 (Waste Treatment and Disposal)  
Section cross-reference(s): 40, 41  
IT 1658-56-6 12218-94-9 42373-04-6  
RL: REM (Removal or disposal); PROC (Process)  
(removal of, from textile dyeing wastewater by adsorption by  
aluminosilicates)

L11 ANSWER 24 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1984:553629 HCAPLUS  
DOCUMENT NUMBER: 101:153629  
TITLE: Inks for ink-jet printing  
PATENT ASSIGNEE(S): Canon K. K., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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MEI HUANG EIC1700 REM4B28 571-272-3952

03/03/2006

JP 59093768                      A2                      19840530                      JP 1982-203954

198211.19

PRIORITY APPLN. INFO.: JP 1982-203954

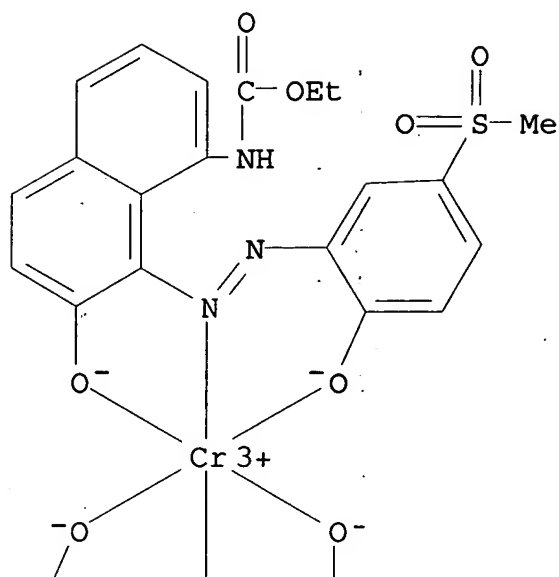
AB Water-sol. dyes contained in a recording agent are C.I. Food Black 2 (I) [2118-39-0] and  $\geq 1$  selected from C.I. Acid Black 24, 26, 52:1, 58, 60, 112, 139, 140, 172, 184, and C.I. Direct Black 118 [12217-54-8]. The black recording solns. have good soly., stability, lightfastness, and prevent clogging of the orifice, and hence they are esp. useful in ink-jet printing. Thus, a recording soln. contg. I 2.5, C.I. Acid Black 52:1 [86543-84-2] 0.5, diethylene glycol 30, N-methyl-2-pyrrolidone 15, and water 52 parts was discharged through an orifice. No clogging was obsd. in continuous or intermittent discharging and the printings had excellent lightfastness.

IT 12218-94-9  
RL: TEM (Technical or engineered material use); USES (Uses)  
(jet-printing inks contg., with improved storage stability and  
nozzle clogging resistance)

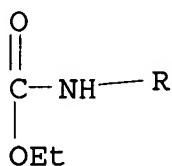
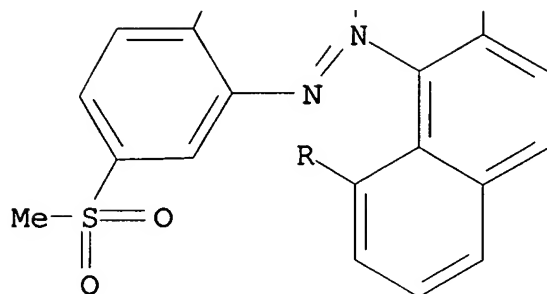
RN 12218-94-9 HCAPLUS

CN Chromate(1-), bis[ethyl [7-hydroxy-8-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-1-naphthalenyl]carbamato(2-)]-, hydrogen, (OC-6-11) - (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

● H<sup>+</sup>

IC C09D011-00; C09D011-16  
CC 42-12 (Coatings, Inks, and Related Products)  
IT 2118-39-0 3071-73-6 6262-07-3 12217-54-8 **12218-94-9**  
12218-95-0 12219-04-4 12238-50-5 57693-14-8 61723-89-5  
71872-17-8 86543-84-2  
RL: TEM (Technical or engineered material use); USES (Uses)  
(jet-printing inks contg., with improved storage stability and  
nozzle clogging resistance)

L11 ANSWER 25 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1984:122760 HCAPLUS  
DOCUMENT NUMBER: 100:122760  
TITLE: 1:2 Chromium and cobalt complex dyes  
INVENTOR(S): Beffa, Fabio  
PATENT ASSIGNEE(S): Ciba-Geigy Corp. , USA  
SOURCE: U.S., 3 pp.  
CODEN: USXXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1



## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 4427585	A	19840124	US 1981-287020	198107 27

## PRIORITY APPLN. INFO.:

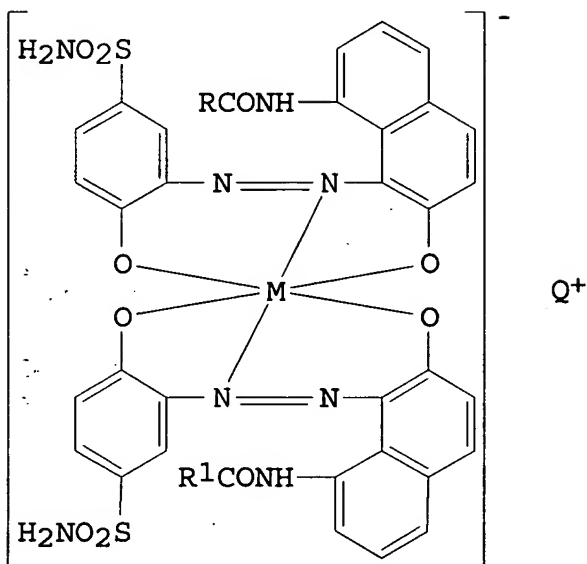
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US 1981-287020	198107 27
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OTHER SOURCE(S):  
GI

MARPAT 100:122760

&lt;--



AB Unsym. I (R = OMe, R1 = Me; M = Cr, Co; Q+ = Na+, ammonium, triethanolamine cation) and their mixts. with sym. I (R = R1 = OMe) and I (R = R1 = Me) (M and Q+ as defined above) are prepd. These dyes are of particular advantage when used in padding liquors or printing pastes, as no problems due to gelling occur. Unsym. I are prepd. via the 1:1 metal complex, and the mixts. are prepd. by

metalizing a mixt. of the 2 ligands. A typical dye, I (R = Me, R1 = OMe, M = Cr, Q+ = Na) [81642-71-9], produced fast gray shades on wool.

IT 69943-64-2 89183-71-1

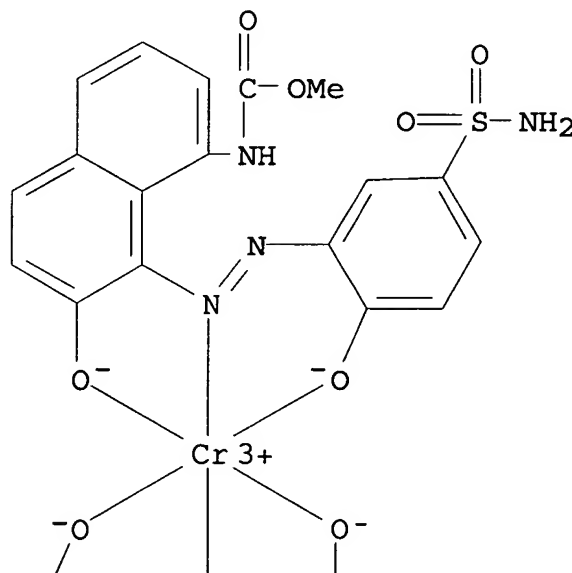
RL: USES (Uses)

(dye mixts. contg., gelling-resistant, for padding liquors and printing pastes for wool)

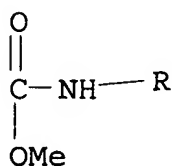
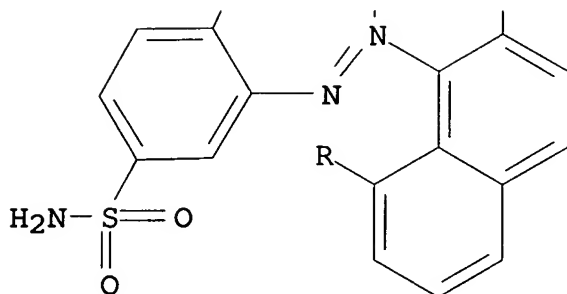
RN 69943-64-2 HCAPLUS

CN Chromate(1-), bis[methyl [8-[[5-(aminosulfonyl)-2-(hydroxy- $\kappa$ O)phenyl]azo- $\kappa$ N1]-7-(hydroxy- $\kappa$ O)-1-naphthalenyl]carbamato(2-)]-, sodium (9CI) (CA INDEX NAME)

PAGE 1-A

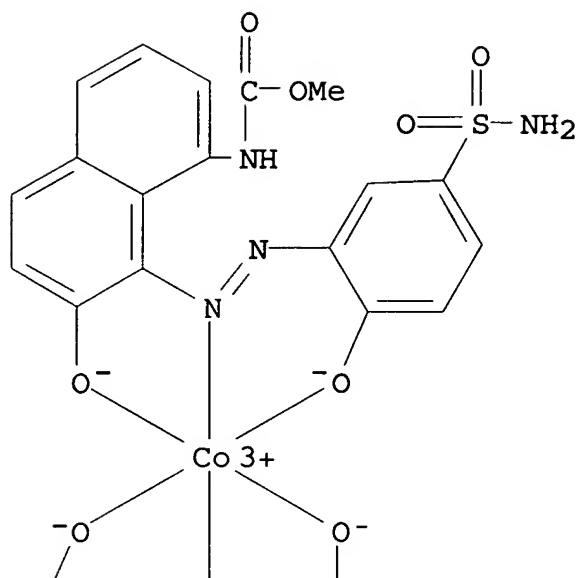


PAGE 2-A

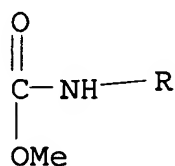
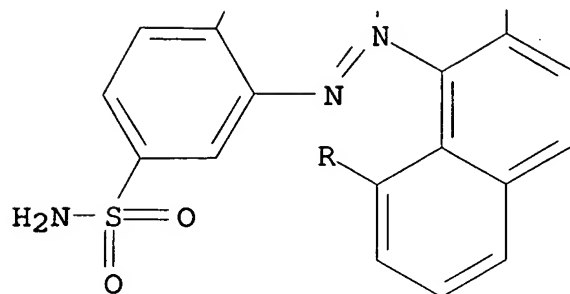


RN 89183-71-1 HCAPLUS  
CN Cobaltate(1-), bis[methyl [8-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-7-hydroxy-1-naphthalenyl]carbamato(2-)]-, sodium (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

● Na<sup>+</sup>

IT 81642-71-9 81642-72-0

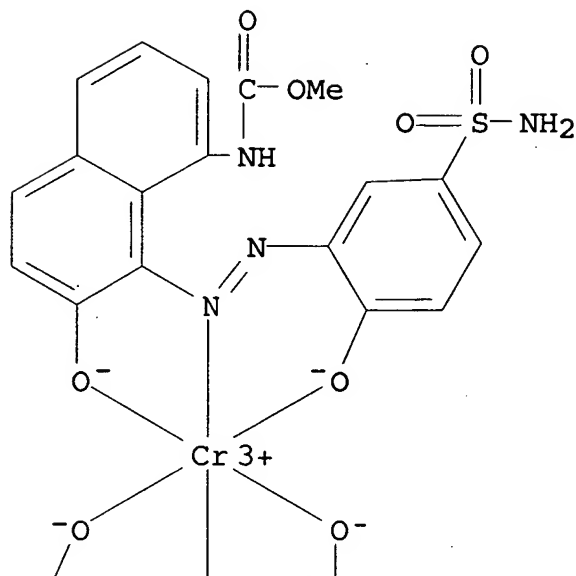
RL: USES (Uses)

(dye, gelling-resistant, for padding liquors and printing pastes  
for wool and polyamide fibers)

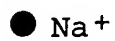
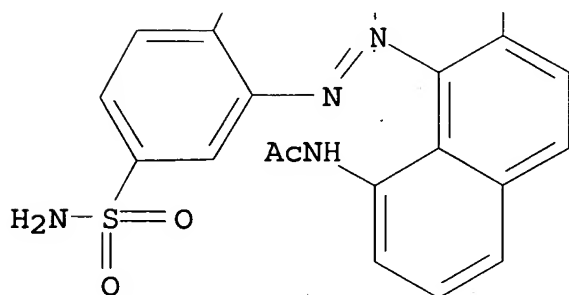
RN 81642-71-9 HCAPLUS

CN Chromate(1-), [N-[8-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-7-  
hydroxy-1-naphthalenyl]acetamido(2-)] [methyl [8-[[5-  
(aminosulfonyl)-2-hydroxyphenyl]azo]-7-hydroxy-1-  
naphthalenyl]carbamato(2-)]-, sodium (9CI) (CA INDEX NAME)

PAGE 1-A



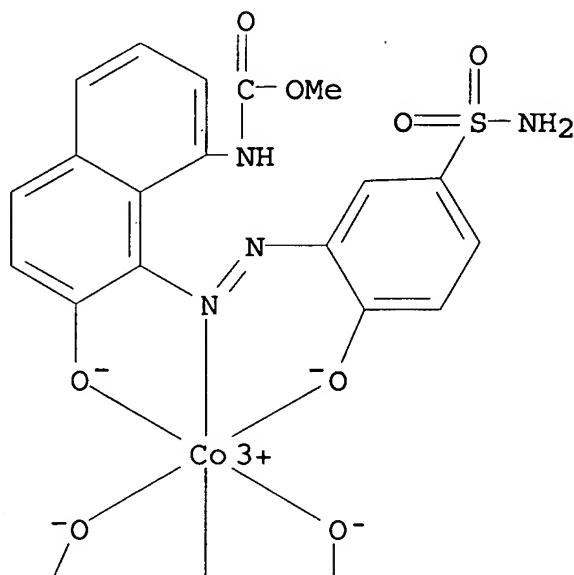
PAGE 2-A



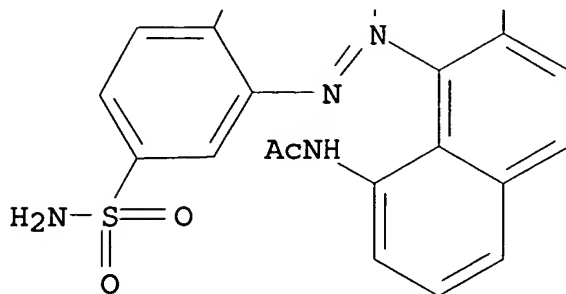
RN 81642-72-0 HCAPLUS

CN Cobaltate(1-), [N-[8-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-7-hydroxy-1-naphthalenyl]acetamidato(2-)][methyl [8-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-7-hydroxy-1-naphthalenyl]carbamato(2-)]-, sodium (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



IC C07C107-108; C09B045-14

INCL 260151000

CC 41-3 (Dyes, Organic Pigments, Fluorescent Brighteners, and  
Photographic Sensitizers)

Section cross-reference(s): 40

IT 24305-97-3 68966-95-0 69943-64-2 89183-71-1

RL: USES (Uses)

(dye mixts. contg., gelling-resistant, for padding liquors and  
printing pastes for wool)

IT 81642-71-9 81642-72-0

RL: USES (Uses)

(dye, gelling-resistant, for padding liquors and printing pastes  
for wool and polyamide fibers)

L11 ANSWER 26 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1982:440311 HCAPLUS

DOCUMENT NUMBER: 97:40311

TITLE: Cobalt-containing azo dyes

PATENT ASSIGNEE(S): Taoka Chemical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 57053565

A2

19820330

JP 1980-129556

198009  
16

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JP 62015099

B4

19870406

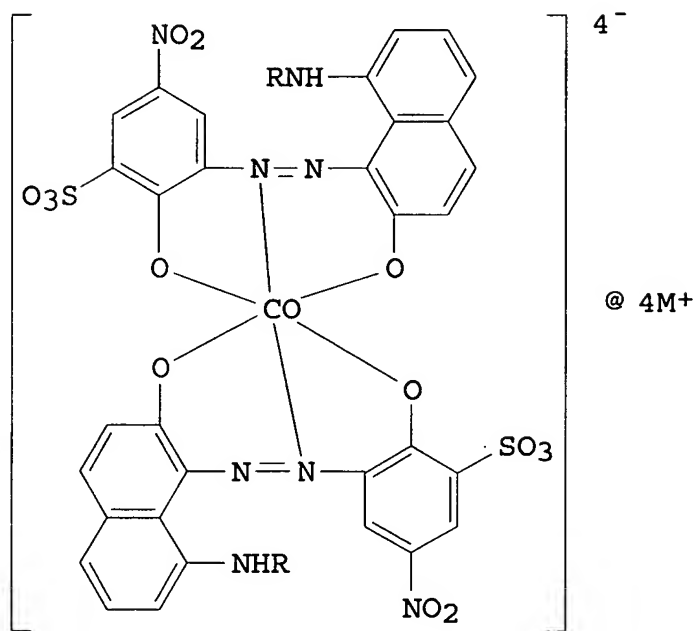
PRIORITY APPLN. INFO.:

JP 1980-129556

198009  
16

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GI



AB The title dyes I (R = Ac, CO<sub>2</sub>Et, CO<sub>2</sub>Me; M = Na, K, NH<sub>4</sub>) were prepd. and used for dyeing nylon fibers in black shades. For example, 2,3,5-HO(H<sub>2</sub>N) (O<sub>2</sub>N)C<sub>6</sub>H<sub>2</sub>SO<sub>3</sub>H→7,1-HOC<sub>10</sub>H<sub>6</sub>NHCO<sub>2</sub>Me was complexed with Na Co tartrate in aq. NaOH to give I (R = CO<sub>2</sub>Me; M = Na) [ 82389-71-7].

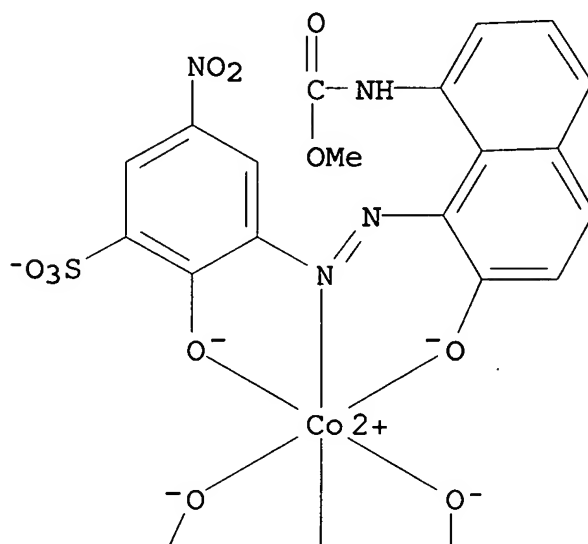
IT 82389-71-7

RL: MSC (Miscellaneous)

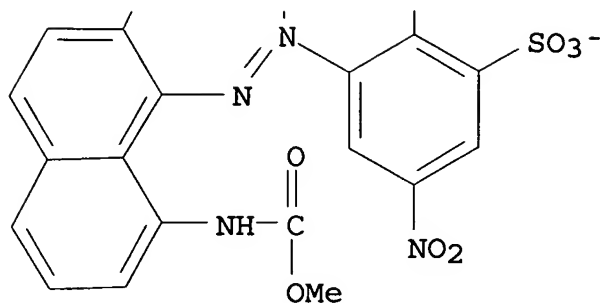
(dyes, for polyamide fibers, manuf. of)

RN 82389-71-7 HCAPLUS  
CN Cobaltate(4-), bis[2-hydroxy-3-[[2-hydroxy-8-  
[(methoxycarbonyl)amino]-1-naphthalenyl]azo]-5-  
nitrobenzenesulfonato(3-)]-, tetrasodium (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

●4 Na<sup>+</sup>

IC C09B045-30; D06P001-18  
 CC 41-3 (Dyes, Fluorescent Brighteners, and Photographic Sensitizers)  
 IT 82389-70-6 **82389-71-7**  
 RL: MSC (Miscellaneous)  
 (dyes, for polyamide fibers, manuf. of)

L11 ANSWER 27 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN:  
 ACCESSION NUMBER: 1982:182752 HCAPLUS  
 DOCUMENT NUMBER: 96:182752  
 TITLE: 1:2-Chromium and cobalt complex dyes  
 INVENTOR(S): Beffa, Fabio  
 PATENT ASSIGNEE(S): Ciba-Geigy A.-G. , Switz.  
 SOURCE: Eur. Pat. Appl., 22 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 45276	A2	19820203	EP 1981-810278	198107 10
EP 45276	A3	19820217		
EP 45276	B1	19830622		

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R: BE, CH, DE, FR, GB, IT  
CA 1169052 A1 19840612 CA 1981-381720

198107  
14

BR 8104525 A 19820330 BR 1981-4525

198107  
15

ES 503976 A1 19820416 ES 1981-503976

198107  
15

JP 57049662 A2 19820323 JP 1981-110111

198107  
16

JP 59012695 B4 19840324  
JP 59172552 A2 19840929 JP 1983-118351

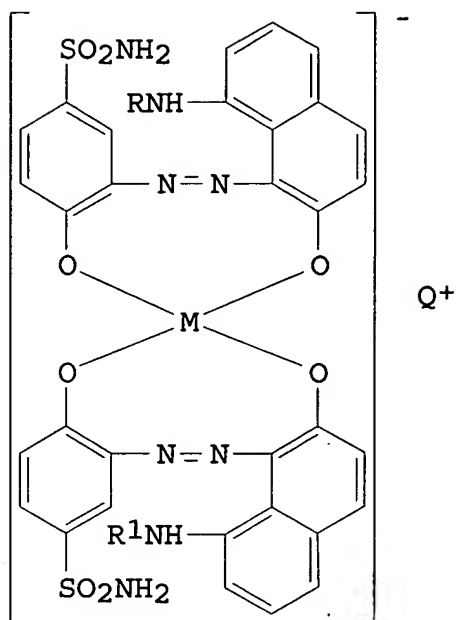
198307  
01

JP 60052175 B4 19851118  
PRIORITY APPLN. INFO.: CH 1980-5456

A

198007  
16

GI



AB Unsym. 1:2 metal complexes (I; R = CO<sub>2</sub>Me, R<sub>1</sub> = Ac; M = Co, Cr; Q<sup>+</sup> = cation) and their mixts. with sym. metal complexes I (R = R<sub>1</sub> = CO<sub>2</sub>Me) and I (R = R<sub>1</sub> = Ac) were prepd. by several conventional methods and used to dye and print wool and polyamide fibers in fast gray shades.

IT 81642-71-9 81642-72-0

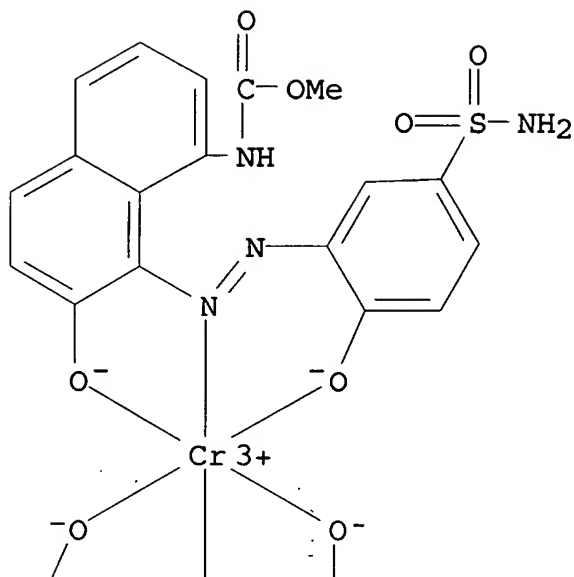
RL: USES (Uses)

(dye, for wool and polyamide fibers, prepn. of)

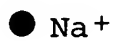
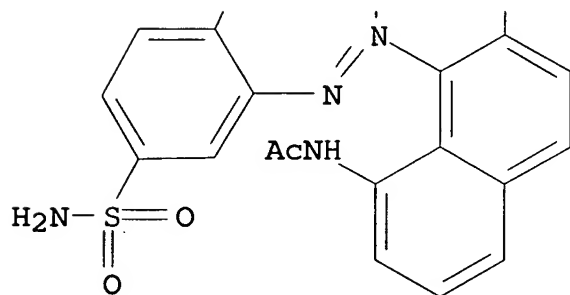
RN 81642-71-9 HCAPLUS

CN Chromate(1-), [N-[8-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-7-hydroxy-1-naphthalenyl]acetamido(2-)] [methyl [8-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-7-hydroxy-1-naphthalenyl]carbamato(2-)]-, sodium (9CI) (CA INDEX NAME)

PAGE 1-A

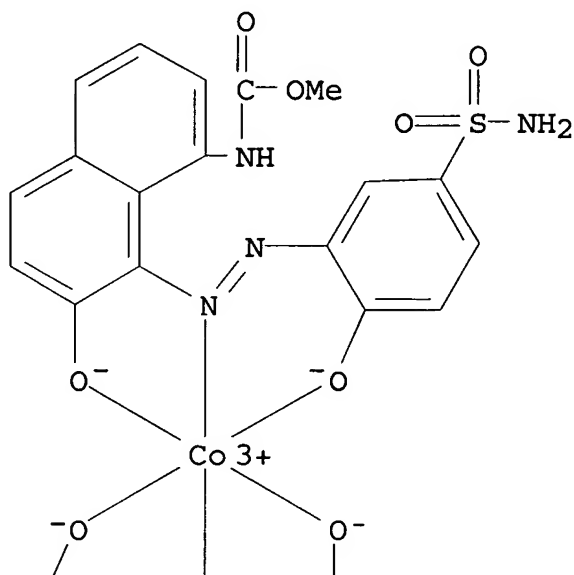


PAGE 2-A

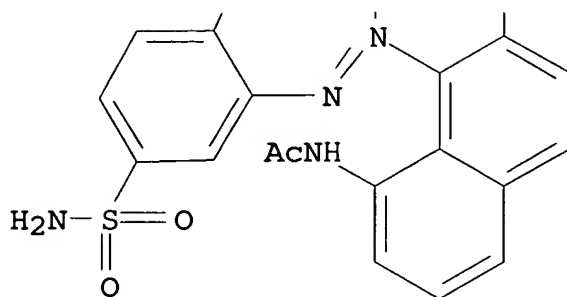


RN 81642-72-0 HCAPLUS  
CN Cobaltate(1-), [N-[8-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-7-hydroxy-1-naphthalenyl]acetamidato(2-)] [methyl [8-[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-7-hydroxy-1-naphthalenyl]carbamato(2-)]-, sodium (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

● Na<sup>+</sup>

IC C09B045-14  
ICA D06P001-10; D06P003-04  
CC 41-3 (Dyes, Fluorescent Brighteners, and Photographic Sensitizers)  
IT 4398-73-6D, cobalt complexes 81642-71-9 81642-72-0  
RL: USES (Uses)  
(dye, for wool and polyamide fibers, prepn. of)

L11 ANSWER 28 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1981:123093 HCAPLUS  
DOCUMENT NUMBER: 94:123093  
TITLE: Cobalt- and chromium-1 to 2-complex dyes  
INVENTOR(S): Schaffner, Ernst  
PATENT ASSIGNEE(S): BASF A.-G., Fed. Rep. Ger.  
SOURCE: Ger. Offen., 11 pp.  
CODEN: GWXXBX  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2918634	A1	19801120	DE 1979-2918634	19790509
EP 19152	A1	19801126	EP 1980-102366	



198005  
02

&lt;--

EP 19152 B1 19810916  
R: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE  
JP 55151061 A2 19801125 JP 1980-59549

198005  
07

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PRIORITY APPLN. INFO.:

DE 1979-2918634 A

197905  
09

&lt;--

AB Co and Cr 1:2 azo dyes are manufd. without any intermediate isolation by diazotizing, coupling, and metalizing in an aq. HOZnR solvent (where R = C1-4 alkyl; Z = CH<sub>2</sub>CH<sub>2</sub>O, CHMeCH<sub>2</sub>O, CH<sub>2</sub>CHMeO; and n = 1-3) with the concn. of metal complex salt 10-30, solvent 10-20, H<sub>2</sub>O 30-60, and salts from the reaction 2-20%. Thus, 1-amino-2-hydroxy-5-chloro-3-benzenesulfonic acid [88-23-3] 111.8, was diazotized in a mixt. of H<sub>2</sub>O 320, butyldiglycol [112-34-5] 180, and HOAc 30 parts with an aq. NaNO<sub>2</sub> soln., 89 parts acetoacetanilide [102-01-2] added, the pH adjusted, and after completion of coupling, a Co(OH)<sub>2</sub> paste was added, the mixt. heated, and the aq. phase removed to give a 1:2 Co complex [76762-32-8] which dyed wool and polyamide fibers a fast yellow shade.

IT 65229-15-4 76762-31-7

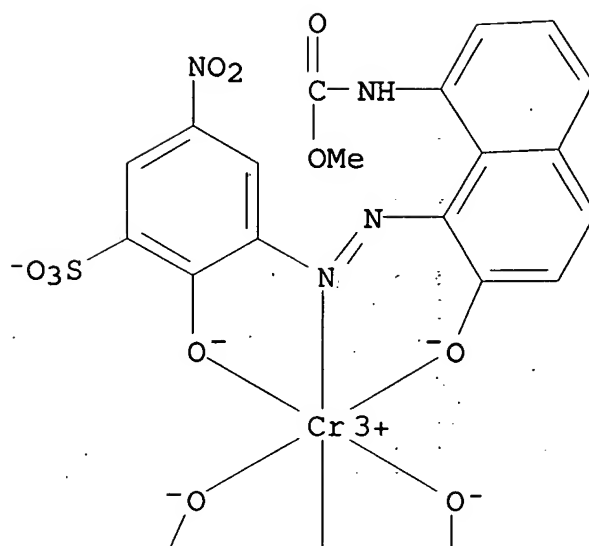
RL: USES (Uses)

(dye, for polyamide fibers and wool, manuf. of, without intermediate isolation)

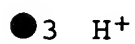
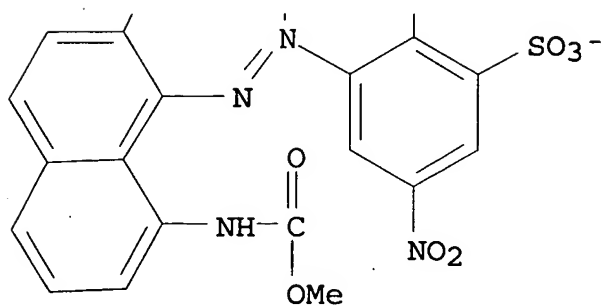
RN 65229-15-4 HCAPLUS

CN Chromate(3-), bis[2-hydroxy-3-[[2-hydroxy-8-[(methoxycarbonyl)amino]-1-naphthalenyl]azo]-5-nitrobenzenesulfonato(3-)]-, trihydrogen (9CI)  
(CA INDEX NAME)

PAGE 1-A



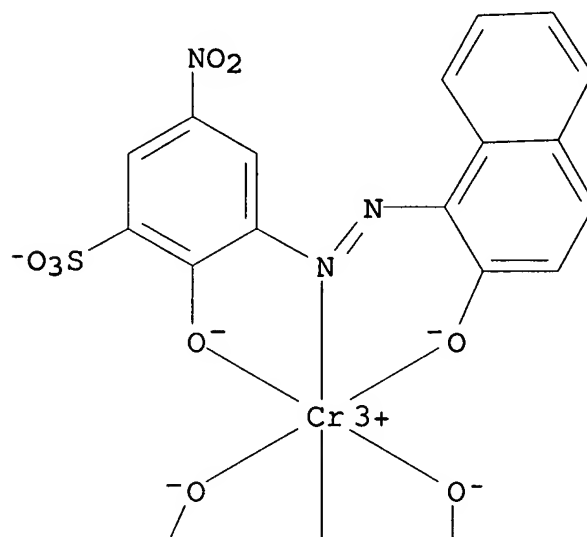
PAGE 2-A



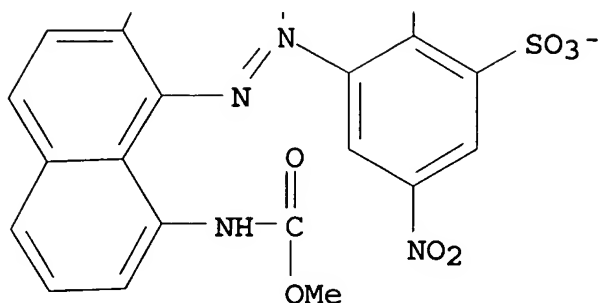
RN 76762-31-7 HCAPLUS

CN Chromate(3-), [2-hydroxy-3-[[2-hydroxy-8-[(methoxycarbonyl)amino]-1-naphthalenyl]azo]-5-nitrobenzenesulfonato(3-)][2-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]-5-nitrobenzenesulfonato(3-)]-, trihydrogen (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

● 3 H<sup>+</sup>

IC C09B045-06; C09B045-10  
CC 40-4 (Dyes, Fluorescent Whitening Agents, and Photosensitizers)  
IT 33270-70-1 52256-37-8 65229-12-1 65229-15-4  
72928-81-5 73231-27-3 76762-31-7 76762-32-8  
76762-33-9 76762-34-0  
RL: USES (Uses)  
(dye, for polyamide fibers and wool, manuf. of, without  
intermediate isolation)

L11 ANSWER 29 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1981:104768 HCAPLUS  
DOCUMENT NUMBER: 94:104768  
TITLE: A study of dyestuff aggregation  
AUTHOR(S): Datyner, A.; Pailthorpe, M. T.  
CORPORATE SOURCE: Univ. New South Wales, Sydney, Australia  
SOURCE: Quinquenn. Int. Wool Text. Res. Conf., [Pap.],  
6th (1980), fiche 10/G/5, 11 frames.  
CSIR: Pretoria, S. Afr.  
CODEN: 44SUAS  
DOCUMENT TYPE: Conference  
LANGUAGE: English

AB The aggregation of 8 anionic dyes was detd. by a diffusion method at 55° and by light scattering at 55, 75, and 95°. Some of these dyes were highly aggregated in 0.03 M aq. NaCl, even at 95°, and these dyes were difficult to apply uniformly to wool. Aggregation was not the only cause of poor leveling; the copper phthalocyaninetetrasulfonate dye was not highly aggregated but was difficult to level. The effect of dye structure on dyeing

properties was discussed.

IT 71598-34-0

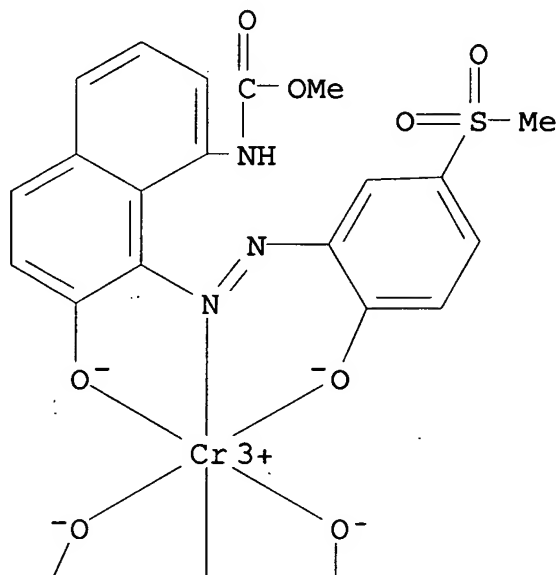
RL: USES (Uses)

(aggregation of, in soln., dyeing levelness on wool in relation to)

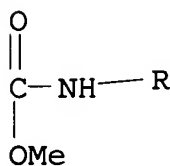
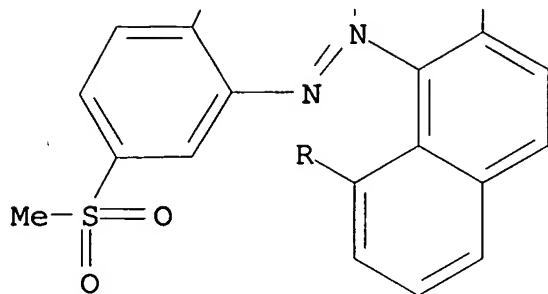
RN 71598-34-0 HCAPLUS

CN Chromate(1-), bis[methyl [7-(hydroxy- $\kappa$ O)-8-[[2-(hydroxy- $\kappa$ O)-5-(methylsulfonyl)phenyl]azo- $\kappa$ N1]-1-naphthalenyl]carbamato(2-)]-, hydrogen (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

● H<sup>+</sup>

CC 39-7 (Textiles)

IT 1324-53-4 4403-90-1 6408-57-7 6408-80-6 14285-63-3

56141-59-4 71598-34-0 76502-48-2

RL: USES (Uses)

(aggregation of, in soln., dyeing levelness on wool in relation to)

L11 ANSWER 30 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1980:587654 HCAPLUS

DOCUMENT NUMBER: 93:187654

TITLE: Effect of graft components on the dyeing properties of polyamide fibers

AUTHOR(S): Flath, Hans Joachim; Feldt, Dieter; Morgenstern, Joachim; Paessler, Helmar

CORPORATE SOURCE: Sek. Chem., Tech. Univ. Dresden, Dresden, Ger. Dem. Rep.

SOURCE: Textiltechnik (Leipzig) (1980), 30(7), 444-6

CODEN: TEXTC5; ISSN: 0323-3804

DOCUMENT TYPE: Journal

## LANGUAGE:

German

AB Although the no. of titrimetrically obtainable amino end groups decreased as the degree of grafting increased, the take-up of dyes by acrylamide-grafted nylon 6 fibers increased because of structural relaxation. The rate of dyeing increased as the degree of grafting increased. When dyeing with the 1:1 metal complex dye C. I. Acid Blue 158 [6370-08-7], the amide groups appear to participate as ligands in the dye bonding, as could be deduced from the redn. of the rate of diffusion, the increase in the satn. value with a smaller increase of the leveling capacity, and a deterioration of the wetfastness with an increase in the degree of grafting. The wetfastness of dyeings produced with the acid dye C. I. Acid Blue 40 [6424-85-7] decreased with an increase in the degree of grafting and could only be improved by after treatment with synthetic products. Hot-water prefixation produced a compact structure of the graft component and made possible an intensive dye-fiber reciprocal effect. The leveling capacity of the dyes tested increased in the order: 1:2 metal complexes  $\leq$  direct < 1:1 metal complex < acid dye.

IT 12218-94-9

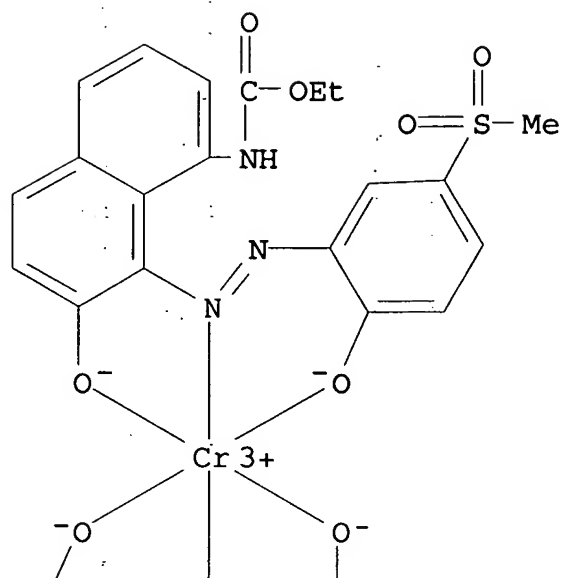
RL: PRP (Properties)

(affinity of, for acrylamide-grafted nylon 6 fibers, degree of grafting effect on)

RN 12218-94-9 HCAPLUS

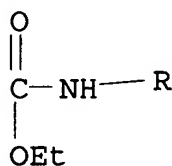
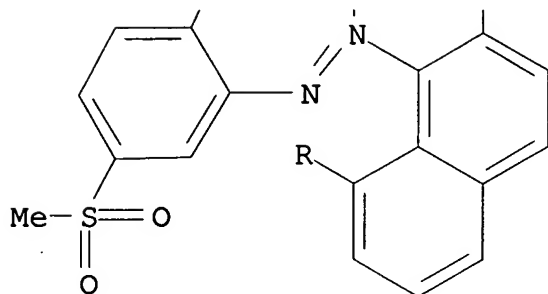
CN Chromate(1-), bis[ethyl [7-hydroxy-8-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-1-naphthalenyl]carbamato(2-)]-, hydrogen, (OC-6-11)-(9CI) (CA INDEX NAME)

PAGE 1-A





PAGE 2-A

● H<sup>+</sup>

CC 39-7 (Textiles)

IT 4399-55-7 6370-08-7 6424-85-7 12218-94-9

RL: PRP (Properties)

(affinity of, for acrylamide-grafted nylon 6 fibers, degree of grafting effect on)

L11 ANSWER 31 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1980:551633 HCAPLUS

DOCUMENT NUMBER: 93:151633

TITLE: A study of dye aggregation. II. The influence of temperature on the aggregation of some anionic dyes

AUTHOR(S): Datyner, A.; Pailthorpe, M. T.

CORPORATE SOURCE: Sch. Text. Technol., Univ. New South Wales, Kensington, 2033, Australia

SOURCE: Journal of Colloid and Interface Science (1980), 76(2), 557-62

CODEN: JCISA5; ISSN: 0021-9797

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The aggregation of 8 anionic azo, anthraquinone, and phthalocyanine dyes was studied by a diffusion method at 55° and by light scattering at 55, 75, and 95°. Some of the dyes were highly aggregated in 0.03M aq. NaCl, even at 95°, and these dyes are difficult to apply uniformly to wool. Aggregation, however, need not be the cause of poor leveling, since the copper phthalocyaninetetrasulfonate dye studied was not highly aggregated but is difficult to level. The aggregation of the 8 dyes was related to dye structure.

IT 71598-34-0

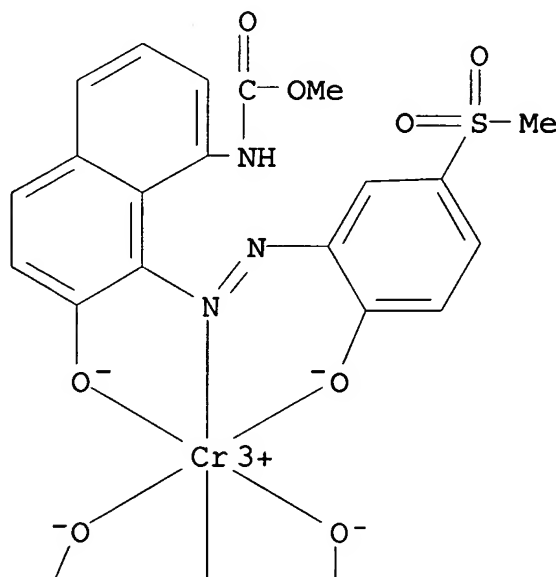
RL: USES (Uses)

(aggregation of, in aq. soln., temp. effect on)

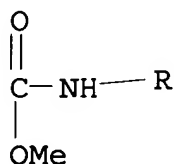
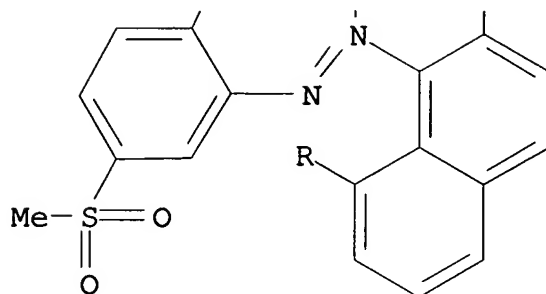
RN 71598-34-0 HCAPLUS

CN Chromate(1-), bis[methyl [7-(hydroxy-κO)-8-[[2-(hydroxy-κO)-5-(methylsulfonyl)phenyl]azo-κN1]-1-naphthalenyl]carbamato(2-)]-, hydrogen (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

● H<sup>+</sup>

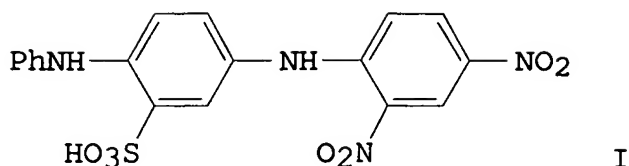
CC 40-1 (Dyes, Fluorescent Whitening Agents, and Photosensitizers)  
IT 1324-53-4 4403-90-1 6408-57-7 6408-80-6 14285-63-3  
52584-47-1 56141-59-4 **71598-34-0**  
RL: USES (Uses)  
(aggregation of, in aq. soln., temp. effect on)

L11 ANSWER 32 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1979:73287 HCAPLUS  
DOCUMENT NUMBER: 90:73287  
TITLE: Solid dye or fluorescent whitener adduct  
INVENTOR(S): Agarwal, Suresh C.; Somlo, Tibor  
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.  
SOURCE: Patentschrift (Switz.), 7 pp.  
CODEN: SWXXAS  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO. -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE
CH 606359	A	19781031	CH 1974-9195	197407 04
DE 2529567	A1	19760122	<-- DE 1975-2529567	197507 02
FR 2277129	A1	19760130	<-- FR 1975-20772	197507 02
DD 119603	C	19760505	<-- DD 1975-187047	197507 02
BE 830954	A1	19760105	<-- BE 1975-157937	197507 03
ES 439108	A1	19770301	<-- ES 1975-439108	197507 03
GB 1516201	A	19780628	<-- GB 1975-28098	197507 03
SU 668617	D	19790615	<-- SU 1975-2150558	197507 03
JP 51030824	A2	19760316	<-- JP 1975-82005	197507 04
BR 7504219	A	19760706	<-- BR 1975-5400	197507 04
PRIORITY APPLN. INFO.:			<-- CH 1974-9195	A 197407

GI

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AB Dyes or fluorescent whiteners contg. at least on H atom capable of forming a H bridge are mixed with aprotic polar compds., e.g. amides or ureas, and heated to form solid adducts which are dustfree and readily sol. in H<sub>2</sub>O. Thus, heating 0.1 mol I with 0.1 mol (Me<sub>2</sub>N)<sub>3</sub>PO for 8 min at 200° gave the 1:1 adduct (II) [58764-29-7] in nearly quant. yield. II was dustfree and had a cold water soly. of 30 g/L at 20°, compared to 10 g/L at 20° for I alone; II also dissolved more rapidly in H<sub>2</sub>O than did I. Adducts of stilbene fluorescent whiteners and azo, metalized azo, and anthraquinone dyes with ureas, phosphate esters, and amides were also prepd.

IT 69074-20-0P

RL: IMF (Industrial manufacture); PREP (Preparation)  
(prepn. of, dustfree and water-sol.)

RN 69074-20-0 HCAPLUS

CN Chromate(3-), bis[4-hydroxy-3-[[2-hydroxy-8-[(methoxycarbonyl)amino]-1-naphthalenyl]azo]benzenesulfonato(3-)]-, sodium dihydrogen, compd. with hexamethylphosphoric triamide (1:2) (9CI) (CA INDEX NAME)

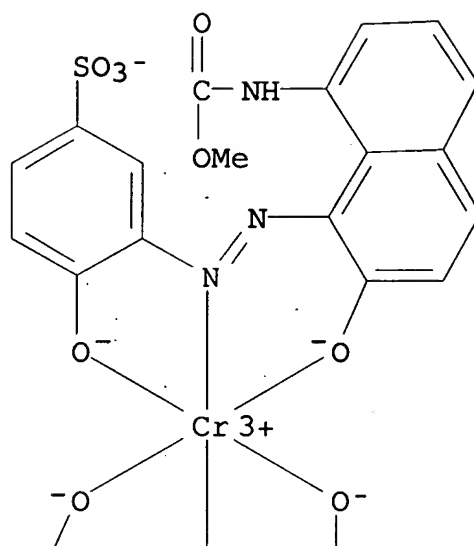
CM 1

CRN 69074-19-7

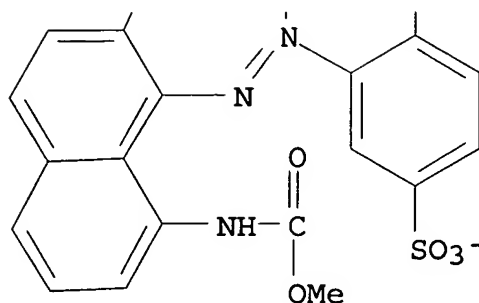
CMF C36 H24 Cr N6 O14 S2 . 2 H . Na

CCI CCS

PAGE 1-A



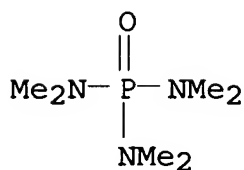
PAGE 2-A

● 2 H<sup>+</sup>● Na<sup>+</sup>

CM 2

CRN 680-31-9

CMF C6 H18 N3 O P



IC C09B069-00

CC 40-1 (Dyes, Fluorescent Whitening Agents, and Photosensitizers)

IT 58764-29-7P 58764-30-0P 58764-31-1P 58764-32-2P 58764-33-3P

58764-35-5P 58764-36-6P 58764-37-7P 58764-39-9P 58764-40-2P

58764-41-3P 58764-42-4P 58764-43-5P 68923-43-3P

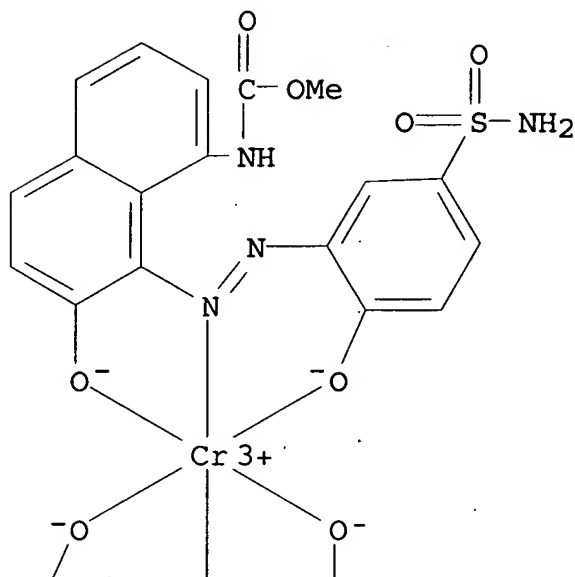
**69074-20-0P** 69182-48-5PRL: IMF (Industrial manufacture); PREP (Preparation)  
(prepn. of, dustfree and water-sol.)

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
----- -----	----	-----	-----	.
DE 2633154	A1	19780126	DE 1976-2633154	197607 23
			<--	
PRIORITY APPLN. INFO.:			DE 1976-2633154	A 197607 23

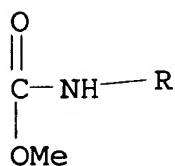
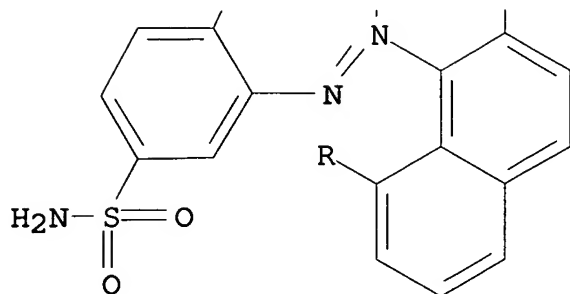
MEI HUANG EIC1700 REM4B28 571-272-3952 03/03/2006



PAGE 1-A



PAGE 2-A



IC C09B045-16  
CC 40-4 (Dyes, Fluorescent Whitening Agents, and Photosensitizers)  
IT 5601-29-6 32517-36-5 33270-70-1 65979-99-9 66006-52-8  
66541-55-7  
RL: USES (Uses)  
(concd. solns. of, for dyeing polyamide and wool fibers and  
leather)

L11 ANSWER 34 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1977:141611 HCAPLUS  
DOCUMENT NUMBER: 86:141611  
TITLE: Unsymmetrical phenyl azo naphthyl chromium  
complex dyes  
INVENTOR(S): Beffa, Fabio; Back, Gerhard  
PATENT ASSIGNEE(S): Ciba-Geigy Corp., USA  
SOURCE: U.S., 10 pp.  
CODEN: USXXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2

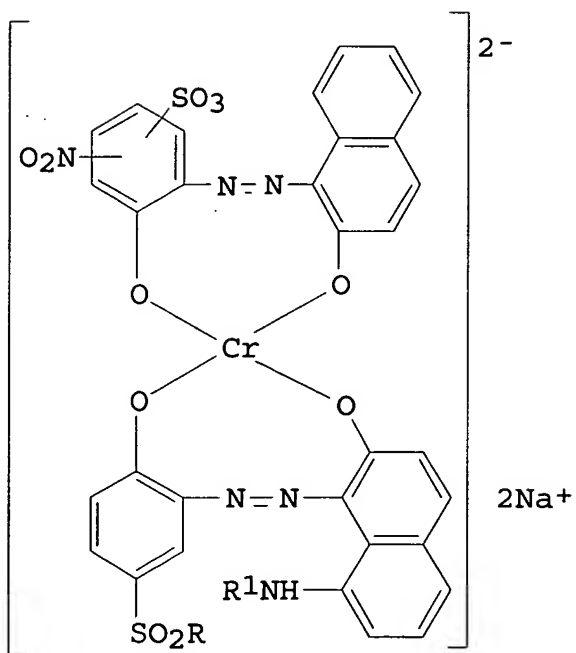
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PATENT NO. -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE
US 4005065	A	19770125	US 1974-479918	197406 17
US 4053462	A	19771011	<-- US 1976-711199	197608 04

## PRIORITY APPLN. INFO.:

<-- CH 1973-9184	A	197306 22
<-- US 1974-479918	A3	197406 17

GI



AB Title dyes (I, R = Me, NH<sub>2</sub>; R<sub>1</sub> = Ac, CO<sub>2</sub>Me, Bz, PrO<sub>2</sub>C) are prepd. by heating the 1:1 Cr complex of one of the azo dyes with the corresponding azo dye partner at 70-90° in the presence of base and are used to dye wool and polyamide fibers and leather fast gray shades.

IT 55039-11-7 55039-13-9

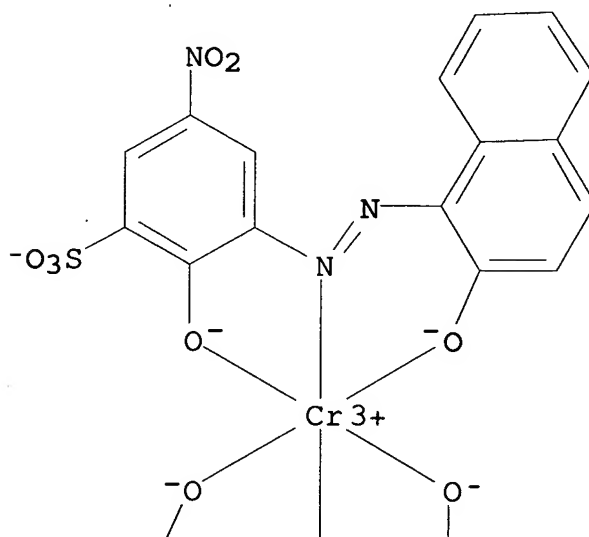
RL: USES (Uses)

(dye, for polyamide fibers and leather, prepn. of)

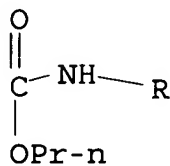
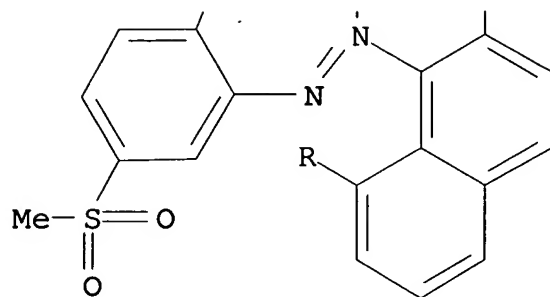
RN 55039-11-7 HCAPLUS

CN Chromate(2-), [2-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]-5-nitrobenzenesulfonato(3-)] [propyl [7-hydroxy-8-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-1-naphthalenyl] carbamato(2-)]-, disodium (9CI) (CA INDEX NAME)

PAGE 1-A

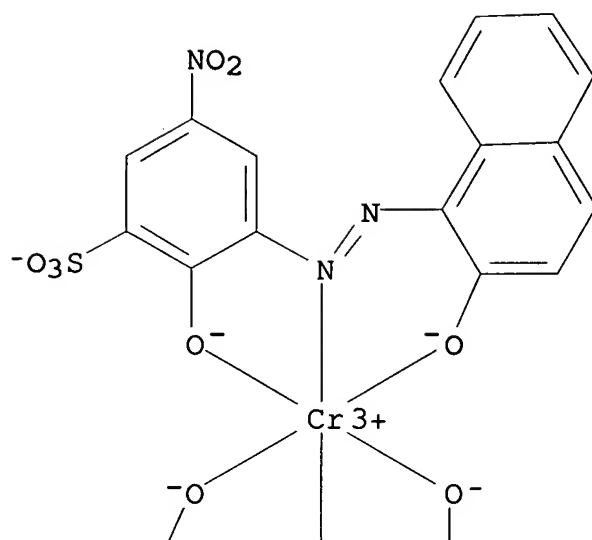


PAGE 2-A

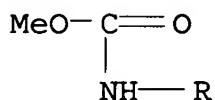
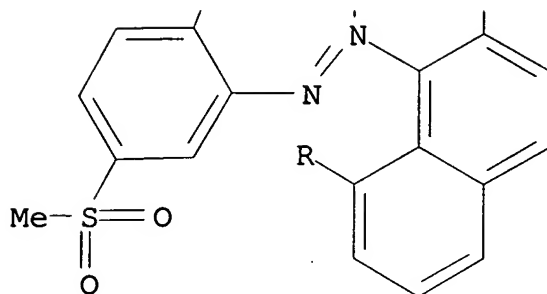
● 2 Na<sup>+</sup>

RN 55039-13-9 HCAPLUS  
 CN Chromate(2-), [2-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]-5-nitrobenzenesulfonato(3-)] [methyl [7-hydroxy-8-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-1-naphthalenyl]carbamato(2-)]-, disodium (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

● 2 Na<sup>+</sup>

IC C09B045-06  
 INCL 260145000A  
 CC 40-4 (Dyes, Fluorescent Whitening Agents, and Photosensitizers)  
 IT 55039-11-7 55039-12-8 55039-13-9 55039-14-0  
 RL: USES (Uses)  
 (dye, for polyamide fibers and leather, prepn. of)

L11 ANSWER 35 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1976:137147 HCAPLUS  
 DOCUMENT NUMBER: 84:137147  
 TITLE: Solid, cold water-soluble preparations  
 INVENTOR(S): Agarwal, Suresh C.; Somlo, Tibor  
 PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.  
 SOURCE: Ger. Offen., 26 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

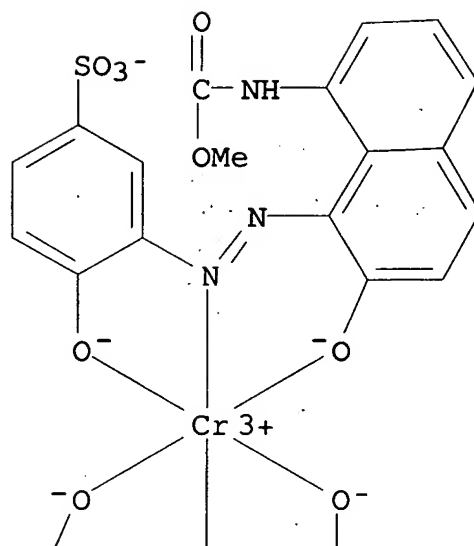
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PRIORITY APPLN. INFO.:

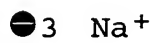
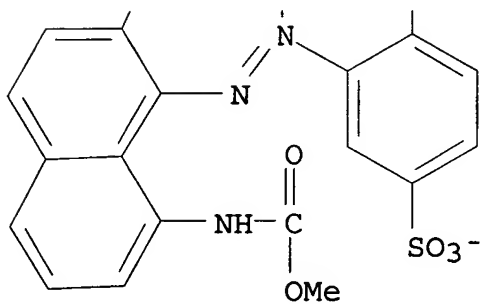
RN 58829-65-5 HCAPLUS  
CN Chromate(3-), bis[4-hydroxy-3-[[2-hydroxy-8-[(methoxycarbonyl)amino]-1-naphthalenyl]azo]benzenesulfonato(3-)]-, trisodium (9CI) (CA INDEX NAME)



PAGE 1-A



PAGE 2-A



IC C09B; D06L  
 CC 39-7 (Textiles)  
 IT 58764-29-7 58764-30-0 58764-31-1 58764-32-2 58764-33-3  
 58764-35-5 58764-36-6 58764-37-7 58764-39-9 58764-40-2  
 58764-41-3 58764-43-5 58764-45-7 58764-47-9 58777-23-4  
**58829-65-5D**, Chromate(3-), bis[4-hydroxy-3-[[2-hydroxy-8-  
 [(methoxycarbonyl)amino]-1-naphthalenyl]azo]benzenesulfonato(3-)]-,  
 trisodium, complex with hexamethylphosphoramide  
 RL: USES (Uses)  
 (granular, cold water-sol. dyeing compn.)

L11 ANSWER 36 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1975:157815 HCAPLUS  
 DOCUMENT NUMBER: 82:157815  
 TITLE: Chromium complex azo dyes  
 INVENTOR(S): Beffa, Fabio; Back, Gerhard  
 PATENT ASSIGNEE(S): Ciba-Geigy A.-G.  
 SOURCE: Ger. Offen., 25 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2429524	A1	19750116	DE 1974-2429524	197406 20
			<--	
DE 2429524	C2	19860724		
CH 580145	A	19760930	CH 1973-9184	197306 22
			<--	
GB 1459308	A	19761222	GB 1974-21071	197405 13
			<--	
CA 1024136	A1	19780110	CA 1974-199951	197405 15
			<--	

AU 7469076	A1	19751120	AU 1974-69076	197405 19
			<--	
FR 2241592	A1	19750321	FR 1974-20952	197406 17
			<--	
FR 2241592	B1	19780324		
NL 7408288	A	19741224	NL 1974-8288	197406 20
			<--	
DD 113020	C	19750512	DD 1974-179324	197406 20
			<--	
ZA 7403962	A	19750625	ZA 1974-3962	197406 20
			<--	
IT 1016108	A	19770530	IT 1974-51625	197406 20
			<--	
BE 816694	A1	19741223	BE 1974-145736	197406 21
			<--	
ES 427505	A1	19761201	ES 1974-427505	197406 21
			<--	
JP 50037823	A2	19750408	JP 1974-72173	197406 22
			<--	
JP 58038466	B4	19830823		
PRIORITY APPLN. INFO.:			CH 1973-9184	A 197306 22
			<--	
GI	For diagram(s), see printed CA Issue.			
AB	The Cr complex azo dyes I (R = Ac, CO <sub>2</sub> Me, CPh, and CO <sub>2</sub> Pr; R <sub>1</sub> = Me or NH <sub>2</sub> ; R <sub>2</sub> = R <sub>3</sub> = NO <sub>2</sub> or SO <sub>3</sub> -) were prep'd. and used for dyeing wool,			

polyamides, and leather wet- and lightfast gray shades. Thus, a mixt. of the monoazo dye from diazotized 2,4-H<sub>2</sub>N(MeSO<sub>2</sub>)C<sub>6</sub>H<sub>3</sub>OH and 1,7-AcNHC<sub>10</sub>H<sub>6</sub>OH, the 1:1 Cr complex of the monoazo dye from diazotized 2,3,5-HO(H<sub>2</sub>N)(O<sub>2</sub>N)C<sub>6</sub>H<sub>2</sub>SO<sub>3</sub>H and 2-C<sub>10</sub>H<sub>7</sub>OH, Na<sub>2</sub>CO<sub>3</sub>, and H<sub>2</sub>O was heated at 80-5° to give a azo dye complex (I; R = Ac, R<sub>1</sub> = Me, R<sub>2</sub> = NO<sub>2</sub>, R<sub>3</sub> = SO<sub>3</sub>-) [55039-14-0]. Similarly prepd. were 3 other I.

IT 55039-13-9P

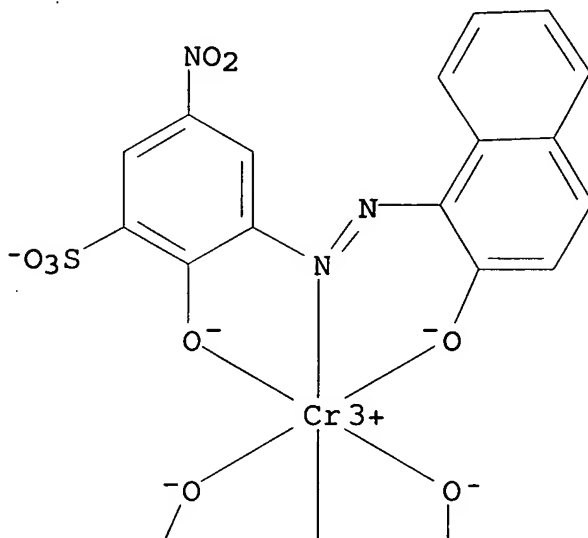
RL: MSC (Miscellaneous); PREP (Preparation)

(dyes, manuf. of, for leather and polyamide fibers and wool)

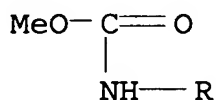
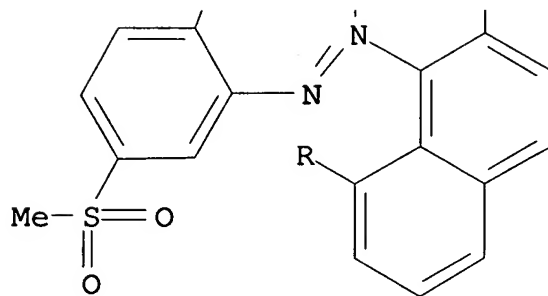
RN 55039-13-9 HCAPLUS

CN Chromate(2-), [2-hydroxy-3-[(2-hydroxy-1-naphthalenyl)azo]-5-nitrobenzenesulfonato(3-)] [methyl [7-hydroxy-8-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-1-naphthalenyl]carbamato(2-)]-, disodium (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

● 2 Na<sup>+</sup>

IC C09B  
CC 40-4 (Dyes, Fluorescent Whitening Agents, and Photosensitizers)  
Section cross-reference(s): 41  
IT 55039-12-8P 55039-13-9P  
RL: MSC (Miscellaneous); PREP (Preparation)  
(dyes, manuf. of, for leather and polyamide fibers and wool).

L11 ANSWER 37 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1972:566071 HCAPLUS  
DOCUMENT NUMBER: 77:166071  
TITLE: Anionic dye preparations  
INVENTOR(S): Mollet, Hans  
PATENT ASSIGNEE(S): Ciba-Geigy A.-G.  
SOURCE: Ger. Offen., 20 pp.  
CODEN: GWXXBX  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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----- DE 2207753	A	19720907	DE 1972-2207753	197202 18
CH 545842	A	19740215	<-- CH 1971-2447	197102 19
NL 7202202	A	19720822	<-- NL 1972-2202	197202 18
FR 2125602	A5	19720929	<-- FR 1972-5585	197202 18
FR 2125602 ZA 7201075	B1 A	19761203 19721025	<-- ZA 1972-1075	197202 18
DD 96248	C	19730312	<-- DD 1972-160983	197202 18
IT 948634	A	19730611	<-- IT 1972-48400	197202 18
BR 7200911	A0	19730823	<-- BR 1972-911	197202 18
CS 154343	P	19740329	<-- CS 1972-1069	197202 18
GB 1370845	A	19741016	<-- GB 1972-7634	197202 18
ES 399906	A1	19741216	<-- ES 1972-399906	197202 18

CA 971307	A1	19750722	CA 1972-135016	197202 18
US 4314815	A	19820209	US 1980-130305	198003 14
RITY APPLN. INFO.:			CH 1971-2447	A 197102 19
			US 1972-224936	A1 197202 09
			US 1974-473046	A1 197405 24
			US 1975-633340	A1 197511 19
			US 1978-880253	A1 197802 22

AB Powder dyeing compns. of 1:2 Cr azo dye complexes or sulfonated nitro or azo dyes with NaHCO<sub>3</sub> and tartaric acid were prepd. These compns. gave dyebaths directly without heating or agitation and had greater tinctorial strength than dye dispersions prepd. by the usual method. They also showed improved wettability and soly., and the rate of incorporation into the dyebath was enhanced by the mixing produced by the liberated CO<sub>2</sub>. For example, 100 g wet presscake contg. 25 g of the 1:2 Cr complex of 4,3-HO(H<sub>2</sub>N)C<sub>6</sub>H<sub>3</sub>SO<sub>2</sub>Me .far. 1-phenyl-3-methyl-5-pyrazzalone was milled with 10 g ligninsulfonate to .leq. 5 $\mu$  particle size, dried in vacuum, and 28.8 g of the dried dispersion (contg 20.6 g dye) milled with lignin sulfonate 8.2, tartaric acid 4.8, NaHCO<sub>3</sub> 4.8, dextrin 30.8, and Na<sub>3</sub>PO<sub>4</sub> 30.8 g to give a powd. compn. which liberated CO<sub>2</sub> in a cold H<sub>2</sub>O dyebath and was usable without any further prepn. to dye wool an orange shade.

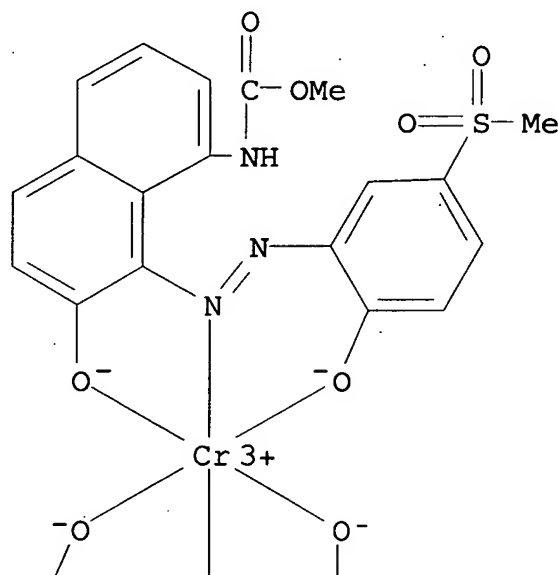
IT 38967-24-7  
RL: USES (Uses)

(powdered dyeing compns., contg. sodium dicarbonate and tartaric acid, for textiles)

RN 38967-24-7 HCAPLUS

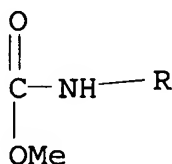
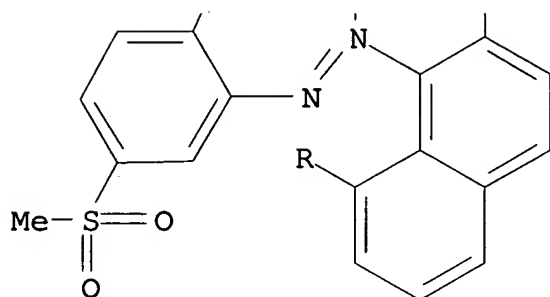
CN Chromate(1-), bis[methyl [7-hydroxy-8-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-1-naphthalenyl]carbamato(2-)]- (9CI)  
(CA INDEX NAME)

PAGE 1-A





PAGE 2-A



IC C09B  
CC 39-7 (Textiles)  
IT 38967-24-7 39002-49-8  
RL: USES (Uses)  
(powdered dyeing compns., contg. sodium dicarbonate and tartaric acid, for textiles)

L11 ANSWER 38 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1972:536298 HCAPLUS  
DOCUMENT NUMBER: 77:136298  
TITLE: Water-resistant organophosphate insecticidal preparations  
INVENTOR(S): Hennart, Claude; Roth, Willy; Moldovanyi, Laslo  
PATENT ASSIGNEE(S): Ciba-Geigy A.-G.  
SOURCE: Fr. Demande, 65 pp.  
CODEN: FRXXBL  
DOCUMENT TYPE: Patent  
LANGUAGE: French  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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FR 2091953	A5	19720121	FR 1971-411	

197101  
08

&lt;--

FR 2091953	B1	19750704	
CH 543233	A	19731214	CH 1970-18612

197012  
16

&lt;--

US 3781428	A	19731225	US 1971-104059
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197101  
05

&lt;--

NL 7100254	A	19710713	NL 1971-254
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197101  
08

&lt;--

ZA 7100098	A	19720426	ZA 1971-98
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197101  
08

&lt;--

DE 2100660	A	19720720	DE 1971-2100660
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197101  
08

&lt;--

AT 304168	B	19721227	AT 1971-129
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197101  
08

&lt;--

CA 964578	A1	19750318	CA 1971-102223
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197101  
08

&lt;--

PRIORITY APPLN. INFO.:	LU 1970-60170	A
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197001  
09

&lt;--

AB Insecticidal compns are described which contain DDVP [62-73-7], an aluminum stearate thickener, a dispersant, paraffin oil, an incorporation agent such as 12-tricosanone or 18-pentatriacontanone, and EDTA disodium calcium salt or 5H-10,11-dihydro-dibenz[b,f]azepine which stabilize the phosphate against hydrolysis. The preps., impregnated into porous or fibrous supports and exposed for several weeks to 50% relative humidity at 20.deg., showed <1% decompn. of the phosphate insecticide as compared to < 55% decompn. obsd. when DDVP alone was impregnated into the support.

IT 37314-74-2

RL: BIOL (Biological study)

(in phosphorus contg. insecticide preps.)

RN 37314-74-2 HCAPLUS

CN Cobaltate(1-), bis[1-[[5-(ethylsulfonyl)-2-hydroxyphenyl]azo]-2-naphthalenolato(2-)]-, sodium, mixt. with sodium bis[methyl 8-[[5-(ethylsulfonyl)-2-hydroxyphenyl]azo]-7-hydroxy-2-naphthalenyl]methylcarbamato(2-)]cobaltate(1-) (9CI) (CA INDEX NAME)

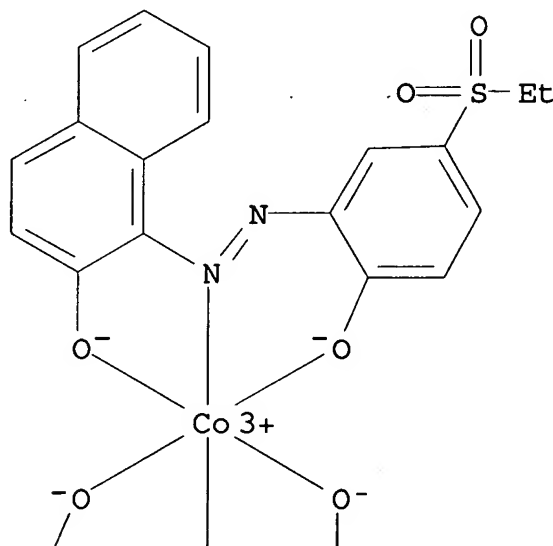
CM 1

CRN 55870-94-5

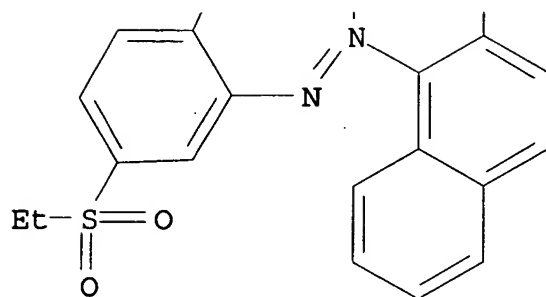
CMF C36 H28 Co N4 O8 S2 . Na

CCI CCS

PAGE 1-A



PAGE 2-A

●  $\text{Na}^+$ 

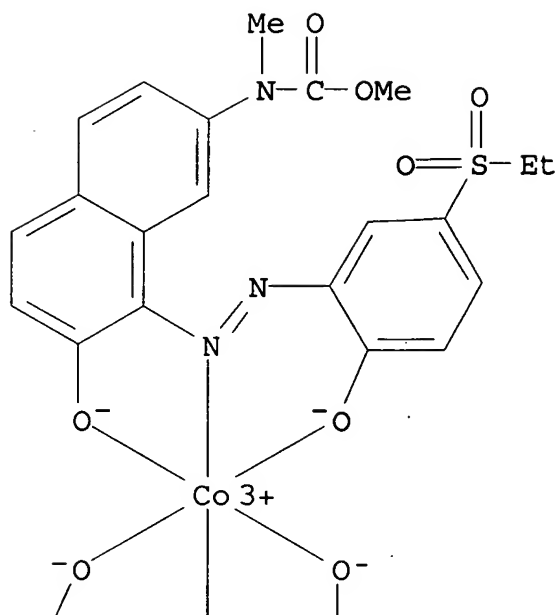
CM 2

CRN 55870-93-4

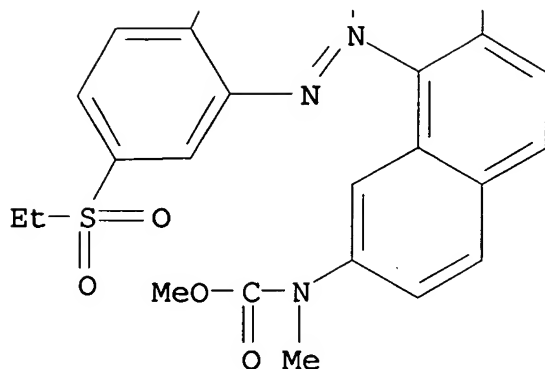
CMF C42 H38 Co N6 O12 S2 . Na

CCI CCS

PAGE 1-A



PAGE 2-A

● Na<sup>+</sup>

IC A01N  
CC 5-13 (Agrochemicals)  
IT 75-05-8, biological studies 106-65-0 106-89-8, uses and  
miscellaneous 123-79-5 127-19-5 7704-34-9, biological studies  
35788-39-7 37314-74-2 38949-38-1 38949-39-2  
RL: BIOL (Biological study)  
(in phosphorus contg. insecticide preps.)

L11 ANSWER 39 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1972:155413 HCAPLUS  
DOCUMENT NUMBER: 76:155413  
TITLE: Fading of dyed fabrics by air pollution  
AUTHOR(S): Beloin, Norman J.  
CORPORATE SOURCE: Div. Ecol. Res., Environ. Prot. Agency, Research  
Triangle Park, NC, USA  
SOURCE: Textile Chemist and Colorist (1972),  
4(3), 77-82  
CODEN: TCCOB6; ISSN: 0040-490X  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB Evaluation of the colorfastness of 67 dye-fabric combinations  
exposed to atm. gases in the absence of sunlight yielded fading in  
64% of the cases. Comparison of parallel urban-rural area samples  
by analysis of variance showed significantly greater fading in the  
urban areas and multiple regression anal. of pollutant concns.  
indicated that sulfur dioxide [7446-09-5], nitrogen dioxide

[10102-44-0], and ozone [10028-15-6] are primary causes of fabric fading. Analyses were based on 6000 color difference measurements of samples exposed for 3-month periods.

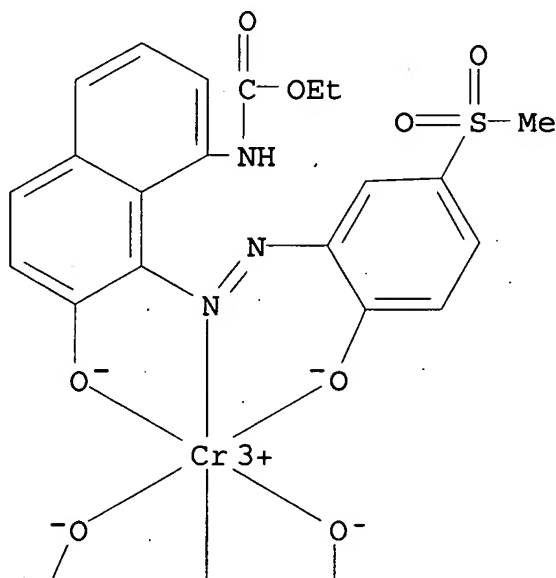
IT 12218-94-9

RL: RCT (Reactant); RACT (Reactant or reagent)  
(fading of, by air pollution)

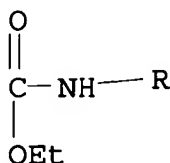
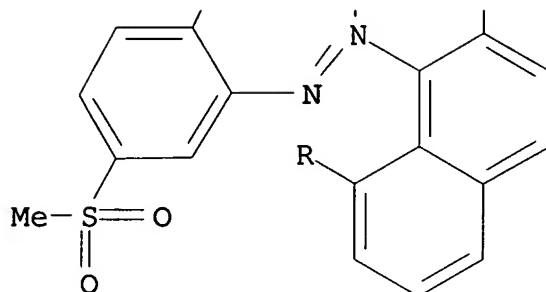
RN 12218-94-9 HCAPLUS

CN Chromate(1-), bis[ethyl [7-hydroxy-8-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-1-naphthalenyl]carbamato(2-)]-, hydrogen, (OC-6-11)- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

● H<sup>+</sup>

CC 39 (Textiles)

Section cross-reference(s): 59

IT	116-85-8	130-20-1	1324-27-2	1324-35-2	1326-51-8	1327-57-7
	1327-74-8	1327-79-3	1330-38-7	1937-34-4	2429-80-3	
	2429-84-7	2475-46-9	2832-40-8	2872-52-8	3056-93-7	
	3271-76-9	3599-20-0	4203-77-4	4208-80-4	4444-00-2	
	5124-25-4	6360-07-2	6406-56-0	6408-90-8	6424-75-5	
	6424-85-7	6441-91-4	6459-94-5	7576-65-0	12217-48-0	
	12217-79-7	12217-80-0	12217-83-3	<b>12218-94-9</b>		
	12219-24-8	12222-60-5	12225-34-2	12236-82-7	12237-00-2	
	12238-94-7	12731-52-1	12731-54-3	12731-56-5	13011-70-6	
	13301-61-6	15000-59-6	15012-28-9	15418-16-3	15791-78-3	
	16143-79-6	17804-49-8	25198-22-5	25255-02-1	30112-70-0	

RL: RCT (Reactant); RACT (Reactant or reagent)

(fading of, by air pollution)

L11 ANSWER 40 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1972:73702 HCAPLUS

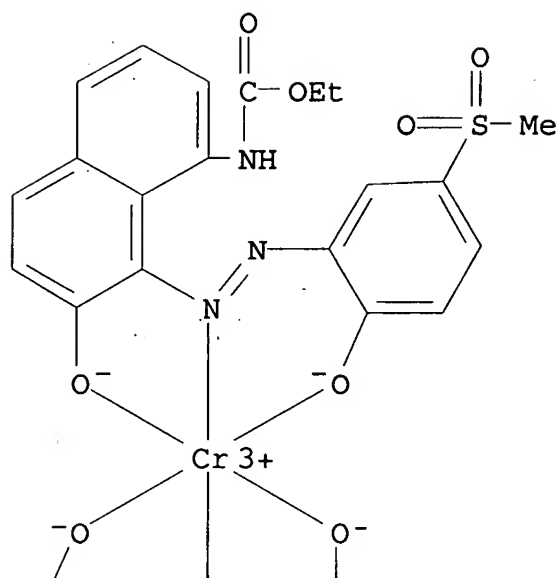
DOCUMENT NUMBER: 76:73702

TITLE: Paper chromatography and thin-layer

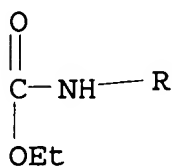
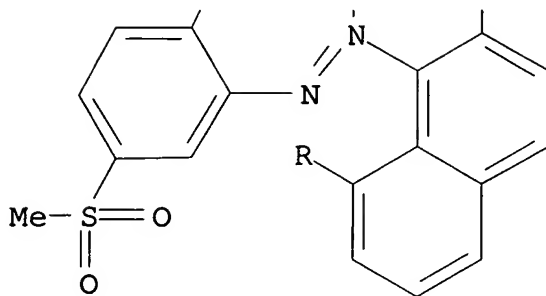


chromatography of 1:2 metal complex dyes  
AUTHOR(S): Mesicek, N.; Perkavac, J.; Perpar, M.  
CORPORATE SOURCE: Lab. Org. Kem., Inst. Kem. Univerze, Ljubljana,  
Yugoslavia  
SOURCE: Kemija u Industriji (1971), 20(5),  
220-3  
CODEN: KJUIAR; ISSN: 0022-9830  
DOCUMENT TYPE: Journal  
LANGUAGE: Croatian  
AB The color and Rf characteristics of dyes of the Cibalan, Irgalan,  
Isolan, Lanacron, Lanasyn, and Vialon type were detd. by paper and  
thin-layer chromatog.  
IT 12218-94-9  
RL: ANT (Analyte); ANST (Analytical study)  
(chromatog. of)  
RN 12218-94-9 HCAPLUS  
CN Chromate(1-), bis[ethyl [7-hydroxy-8-[[2-hydroxy-5-  
(methylsulfonyl)phenyl]azo]-1-naphthalenyl]carbamato(2-)]-,  
hydrogen, (OC-6-11)- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

● H<sup>+</sup>

CC 40 (Dyes, Fluorescent Whitening Agents, and Photosensitizers)  
 Section cross-reference(s): 80  
 IT 5601-29-6 5601-29-6 **12218-94-9** 12219-36-2 12219-54-4  
 12219-59-9 12219-65-7 12219-66-8 12219-93-1 12220-08-5  
 12220-25-6 12234-73-0 12239-01-9 12239-03-1 12239-05-3  
 12239-08-6 12269-95-3 12643-05-9 12643-06-0 12643-07-1  
 12643-08-2 12643-09-3 12645-52-2 12646-10-5 12651-40-0  
 12651-41-1  
 RL: ANT (Analyte); ANST (Analytical study)  
 (chromatog. of)

L11 ANSWER 41 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1970:441617 HCAPLUS

DOCUMENT NUMBER: 73:41617

TITLE: Chromatographic dye analysis. 2.  
 Paper-chromatographic analysis of acid dyes of  
 the azo series. 1. Paper-chromatographic  
 analysis of metal complex dyes

AUTHOR(S): Schlegelmilch, Franz; Fuchs, M.

CORPORATE SOURCE: Staatl. Ingenieursch. Textilwesen

Moenchengladbach, Muenchen-Gladbach, Fed. Rep.  
Ger.

SOURCE: Zeitschrift fuer die Gesamte Textilindustrie (1970), 72(5), 388-93

CODEN: ZGTXA7; ISSN: 0372-8943

DOCUMENT TYPE: Journal

LANGUAGE: German

AB pH-Dependent paper chromatog. on acetylated cellulose (Schleicher and Schuell No. 2043b/45ac) paper with a 1:3:1 CHCl<sub>3</sub>-MeOH-buffer soln. was used to distinguish metal-free and metalized acid dyes contg. SO<sub>3</sub>H groups from those contg. SO<sub>2</sub>R (R = Me, NHR<sub>1</sub>). Metal complex dyes and metal-free acid dyes were identified by microchem. spot reactions. Normal paper chromatog. on cellulose (Schliecher and Schuell No. 2043b) with a mixt. of 4:1:1 BuOH-AcOH-H<sub>2</sub>O and 8:1:1 iso-PrOH-NH<sub>3</sub>-H<sub>2</sub>O was used to distinguish between 1:1 and 1:2 metal complex dyes. C. I. Acid Violet 56, C. I. Acid Blue 158, C. I. Acid Green 12, and other azo dyes were tested.

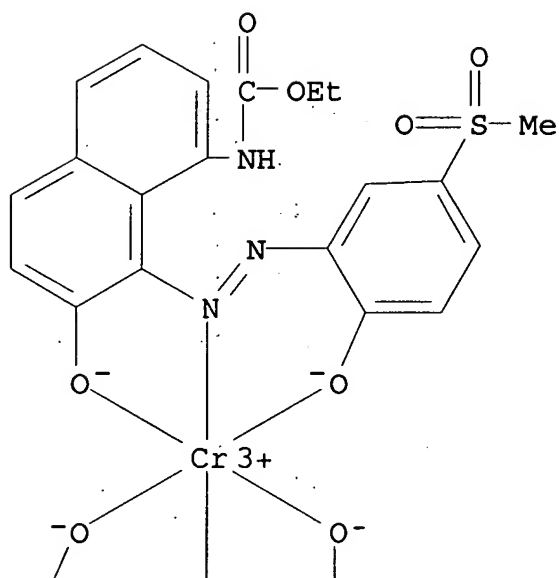
IT 12218-94-9

RL: ANT (Analyte); ANST (Analytical study)  
(chromatog. of)

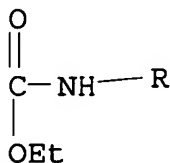
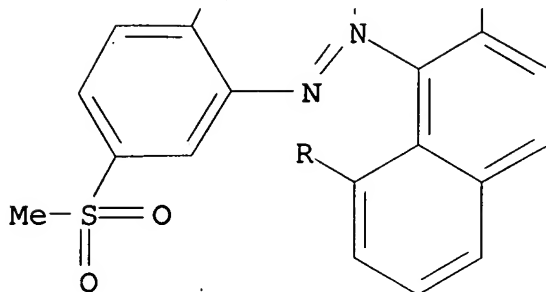
RN 12218-94-9 HCAPLUS

CN Chromate(1-), bis[ethyl [7-hydroxy-8-[[2-hydroxy-5-(methanesulfonyl)phenyl]azo]-1-naphthalenyl]carbamato(2-)]-, hydrogen, (OC-6-11)- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

● H<sup>+</sup>

CC 80 (Organic Analytical Chemistry)  
 IT 5601-29-6 6370-08-7, C.I. Acid Blue 158, disodium salt  
 10241-21-1, C.I. Acid Green 12, monosodium salt 12217-02-6  
 12218-94-9 12219-24-8 12219-43-1 12220-81-4  
 12239-05-3 12239-13-3 12270-08-5 15792-61-7 29454-95-3  
 29524-56-9 29642-27-1D, Acetamide, N-[7-hydroxy-8-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-1-naphthyl]-, chromium complexes  
 30304-15-5 69518-14-5D, 1-Naphthalenesulfonic acid,  
 3,8'-dihydroxy-4,7'-azodi-, chromium complexes  
 RL: ANT (Analyte); ANST (Analytical study)  
 (chromatog. of)

L11 ANSWER 42 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1968:92636 HCAPLUS  
 DOCUMENT NUMBER: 68:92636  
 TITLE: Detection of metals in 1:2 metal-dye complexes  
 AUTHOR(S): Logar, Stefaniya; Perpar, Marija  
 CORPORATE SOURCE: Univ. Ljubljana, Ljubljana, Yugoslavia  
 SOURCE: Kemija u Industriji (1967), 16(6),  
 277-8

CODEN: KJUIAR; ISSN: 0022-9830

DOCUMENT TYPE:

Journal

LANGUAGE:

Croatian

AB Borax beads were wet with H<sub>2</sub>O, dipped into the metal-dye complex, and placed 1st in the oxidizing and then into the reducing portion of the flame. Cr complexes with five Cibalan, two Irgalan, eight Isolan, and five Lanasyn dyes gave a green color. Co complexes with three Cibalan, two Isolan, and four Lanasyn dyes were sky blue.

IT 12218-94-9

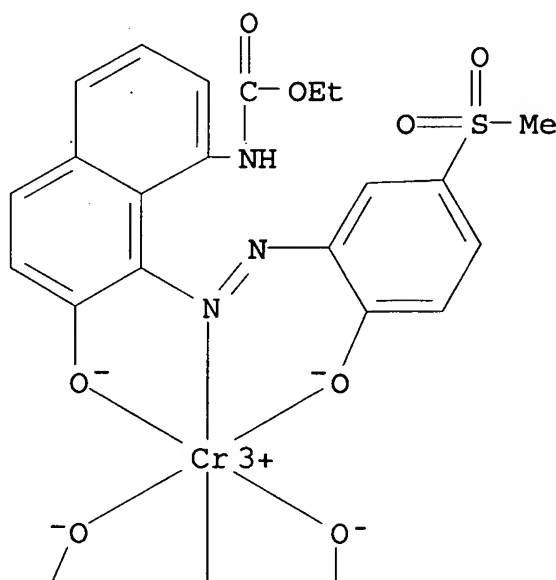
RL: ANST (Analytical study)

(in detection of chromium, by flame excitation of complex)

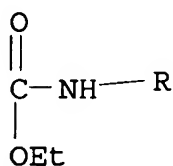
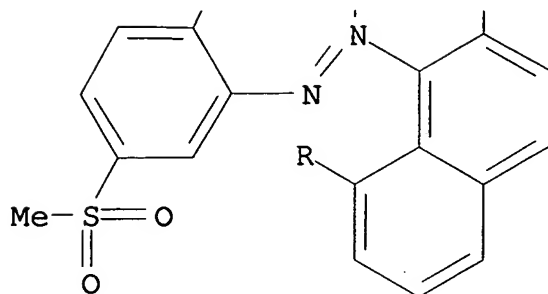
RN 12218-94-9 HCAPLUS

CN Chromate(1-), bis[ethyl [7-hydroxy-8-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-1-naphthalenyl]carbamato(2-)]-, hydrogen, (OC-6-11)-(9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

● H<sup>+</sup>

CC 79 (Inorganic Analytical Chemistry)  
 IT 5601-29-6 **12218-94-9** 12218-95-0 12218-96-1  
 12219-04-4 12219-14-6 12219-24-8 12219-54-4 12219-59-9  
 12219-89-5 12220-07-4 12220-08-5 12220-27-8 12220-75-6  
 12238-85-6 12239-03-1 12239-05-3 12239-06-4 61723-99-7, C.I.  
 Acid Blue 200  
 RL: ANST (Analytical study)  
 (in detection of chromium, by flame excitation of complex)

L11 ANSWER 43 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1965:470823 HCAPLUS  
 DOCUMENT NUMBER: 63:70823  
 ORIGINAL REFERENCE NO.: 63:12968b-c  
 TITLE: Hair-bleaching composition  
 INVENTOR(S): Edman, Walter W.; Sullivan, Anne T.  
 PATENT ASSIGNEE(S): Sales Affiliates, Inc.  
 SOURCE: 3 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1



## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 3193464		19650706	US	190105 31

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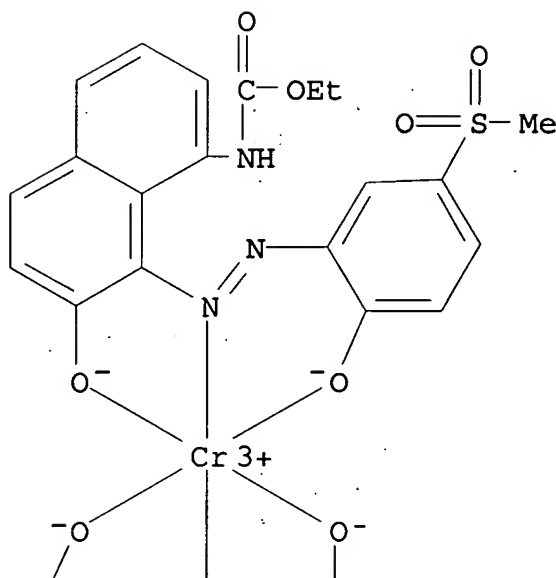
AB A hair-bleaching compn. comprises a bleach base contg. NH4OH, H2O2 as a bleaching agent, a bleach booster consisting of a water-sol. persulfate in combination with Na metasilicate, and urea as a "coolant." An example of a bleach base is NH4OH (28% concn.) 9, propylene glycol 15, oleic acid 40, iso-PrOH 15, Iragalan Grey BL 0.1, and Na ethylenediaminetetraacetate (I) 0.55%. A bleach booster contains (NH4)2S2O8 14, Na metasilicate 14, K2S2O8 30, I 0.1, SiO2 1, cetyl alc. 3.4, and urea 37.5%.

IT 12218-94-9, C.I. Acid Black 58  
(hair bleaching compns. from H2O2, persulfate-Na2SiO3 boosters and drabbing)

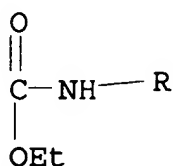
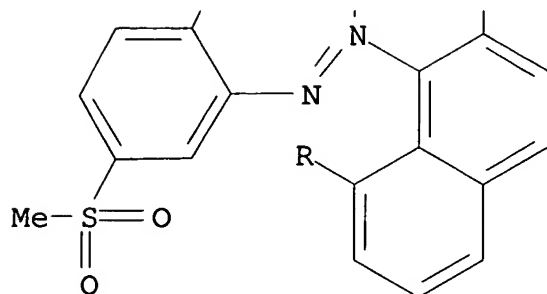
RN 12218-94-9 HCAPLUS

CN Chromate(1-), bis[ethyl [7-hydroxy-8-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-1-naphthalenyl]carbamato(2-)]-, hydrogen, (OC-6-11)-(9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

●  $\text{H}^+$ 

INCL 16788

CC 29 (Essential Oils and Cosmetics)

IT 12218-94-9, C.I. Acid Black 58

(hair bleaching compns. from  $\text{H}_2\text{O}_2$ , persulfate- $\text{Na}_2\text{SiO}_3$  boosters  
and drabbing)

L11 ANSWER 44 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1965:91553 HCAPLUS

DOCUMENT NUMBER: 62:91553

ORIGINAL REFERENCE NO.: 62:16427b-c

TITLE: Skin-core structure of nylon and Teton fibers

AUTHOR(S): Kato, Koichi; Yamamoto, Shigeru; Yoshimura, Kenji

SOURCE: Sen'i Gakkaishi (1963), 19(8), 646-51

CODEN: SENGA5; ISSN: 0037-9875

DOCUMENT TYPE: Journal

LANGUAGE: Japanese

AB A new technique for the differential staining of the skin-core structure of nylon yarn cross-sections is described. The technique differs from the method developed by Berry (CA 56, 7531e) in that a

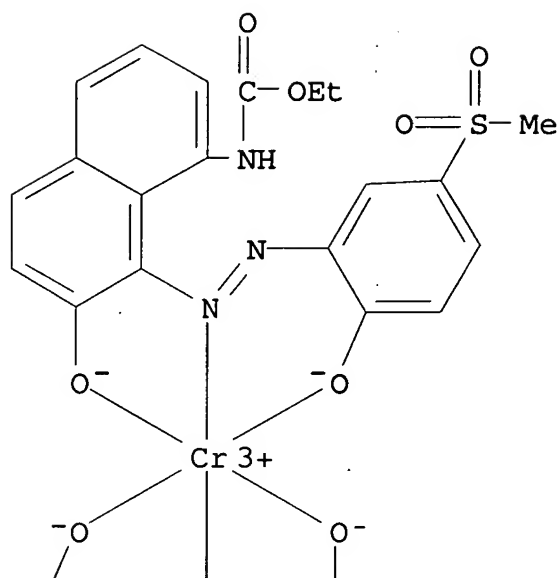
single metal-complex dye, C.I. Acid Black 58, is used instead of a combination of C.I. Acid Blue 1 and C.I. Basic Violet 1. According to the staining and differentiation procedures applied, one can obtain either the skin staining or the core staining in a highly reproducible manner. A distinct skin-core structure is present in nylon filament, both undrawn and drawn, and the outer skin portion always permits the dye to enter and leave much more readily than the inner core portion. A similar structure is revealed in Teton polyester fiber cross-sections. Disperse dyes were used to stain slide prepns. with or without carrier, followed by washing with CHCl:CCl<sub>2</sub>. It was difficult to get a sufficiently deep staining of the cross-sections, esp. of drawn yarns.

IT 12218-94-9, C.I. Acid Black 58  
(Dacron and nylon cross-section staining by, in skin-core structure detn.)

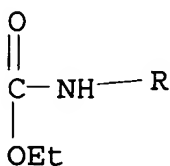
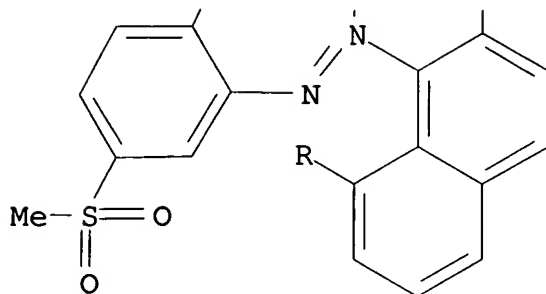
RN 12218-94-9 HCAPLUS

CN Chromate(1-), bis[ethyl [7-hydroxy-8-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-1-naphthalenyl]carbamato(2-)]-, hydrogen, (OC-6-11)- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

● H<sup>+</sup>

CC 47 (Textiles)  
 IT 12218-94-9, C.I. Acid Black 58  
 (Dacron and nylon cross-section staining by, in skin-core structure detn.)

L11 ANSWER 45 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1965:59508 HCAPLUS  
 DOCUMENT NUMBER: 62:59508  
 ORIGINAL REFERENCE NO.: 62:10585b-d  
 TITLE: Methods of dyeing cross-sections for differentiating skin and core structures of stretched and unstretched polyamide and polyester fibers  
 AUTHOR(S): Kato, Koichi  
 CORPORATE SOURCE: Toyo Rayon A.-G., Otsu, Japan  
 SOURCE: Melliand Textilberichte (1923-1969) (1965), 46(2), 173-5  
 CODEN: METXAK; ISSN: 0025-8989  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German

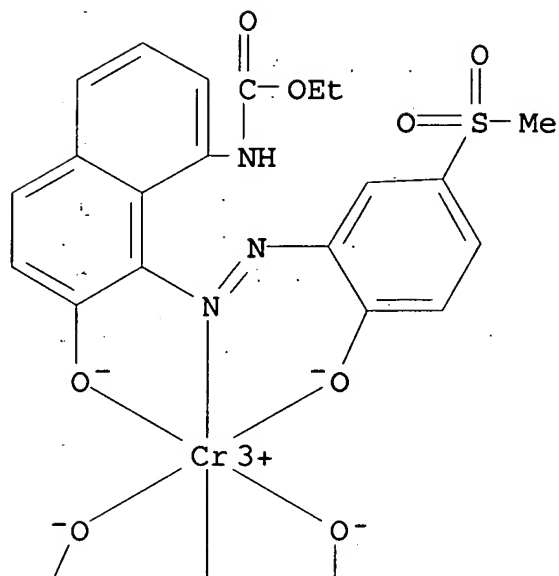
AB The metal complex dye Lanasyn Gray BL applied to microtome sections of polyamide fibers 5  $\mu$  thick differentiates between skin and core and yields information concerning the degree of stretch experienced by the fibers by the different depths of color observed. An aq. dispersion of 1% Cibaset Dark Blue RB, 0.5% Setamol WS powder, and 0.5% Polyescar works similarly with polyester fibers. The fibers are dyed at the boil for 1 min. and washed with 90% EtOH. Before embedding, the fibers are washed with abs. alc. and xylene. The embedding contained 50 g. paraffin, 25 g. stearic acid, and 25 g. ethyl cellulose, it m. 109°. The skin of the unstretched polyamide fibers was deeply colored; the core lightly colored; after stretching the cross sections were almost colorless. The cores of the unstretched fibers required 30 min. dyeing at the boil, followed by 5 min. rinsing with 75% EtOH; in the stretched fibers, the alc. rinse continued 3 hrs. Unstretched polyester fibers were dyed 3 min. at the boil and rinsed with water followed by 90% EtOH, which colored only the skin. Stretched fibers were dyed 30 min. at the boil, followed by the same rinsings. The cores of the unstretched fibers were dyed 30 min. at the boil and rinsed 2 hrs. with trichloroethylene. The stretched fibers were rinsed 10 hrs.

IT 12218-94-9, C.I. Acid Black 58  
(nylon cross-section dyeing with, in differentiating core and skin)

RN 12218-94-9 HCAPLUS

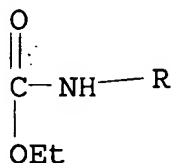
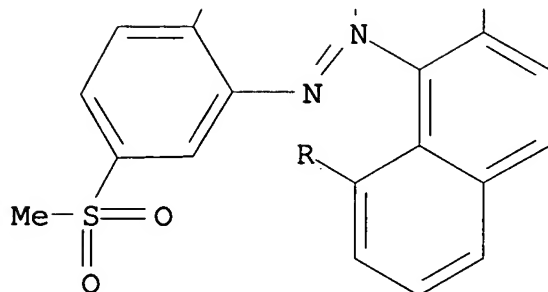
CN Chromate(1-), bis[ethyl [7-hydroxy-8-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-1-naphthalenyl]carbamato(2-)]-, hydrogen, (OC-6-11)- (9CI) (CA INDEX NAME)

PAGE 1-A





PAGE 2-A

● H<sup>+</sup>

CC 47 (Textiles)  
IT 12218-94-9, C.I. Acid Black 58  
(nylon cross-section dyeing with, in differentiating core and skin)

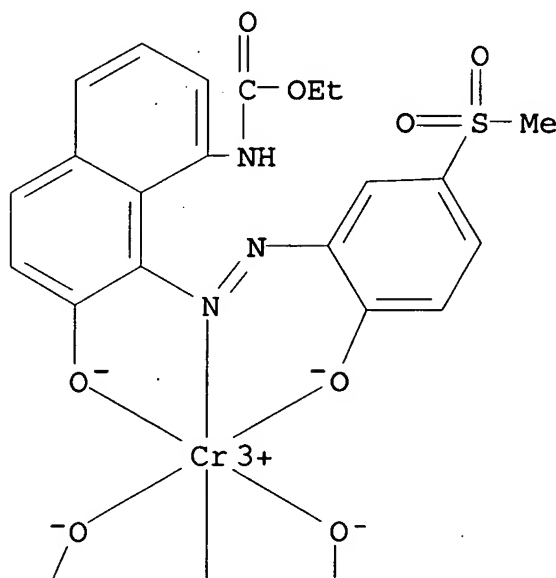
L11 ANSWER 46 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1962:463740 HCAPLUS  
DOCUMENT NUMBER: 57:63740  
ORIGINAL REFERENCE NO.: 57:12751d-e  
TITLE: Skin and core staining of nylon 6 yarns  
AUTHOR(S): Kato, Koichi  
CORPORATE SOURCE: Toyo Rayon Co. Ltd., Otsa, Japan  
SOURCE: Textile Research Journal (1962), 32, 695-7  
CODEN: TRJOA9; ISSN: 0040-5175  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable

AB A differential staining method for the skincore structure of nylon 6 and 66 involves embedding 5  $\mu$ thick cross-sections of the fibers in a mixt. of paraffin, stearic acid, and Et cellulose, and flooding

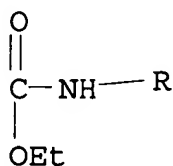
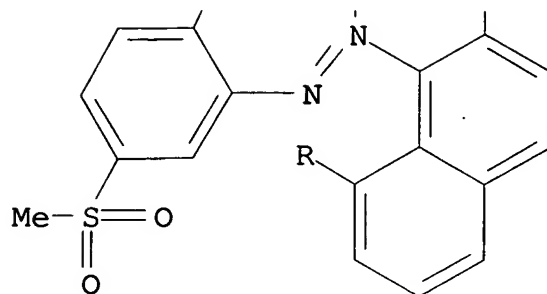
them with a 1% aq. soln. of Lanasyne Gray BL, heating on a hot plate (1 min. for undrawn yarn, 5 min. for drawn) to cause staining of the skin section, and washing with distd. H<sub>2</sub>O. Core staining requires immersion of the slides in the dye soln. for 30 min. at 95°, rinsing, and differentiating with 75% EtOH (5 min. for undrawn yarn, 3 hrs. for drawn). Similar structures in polyester-fiber cross-sections were revealed by staining with 1% aq. Celanthrene Brilliant Blue FFSK 300% at 95° for 1 hr. and washing with trichlorethylene.

IT 12218-94-9, C.I. Acid Black 58  
 (polyester fiber cross-section staining by)  
 RN 12218-94-9 HCAPLUS  
 CN Chromate(1-), bis[ethyl [7-hydroxy-8-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-1-naphthalenyl]carbamato(2-)]-, hydrogen, (OC-6-11)-(9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

● H<sup>+</sup>

CC 48 (Textiles)  
IT 12218-94-9, C.I. Acid Black 58  
(polyester fiber cross-section staining by)

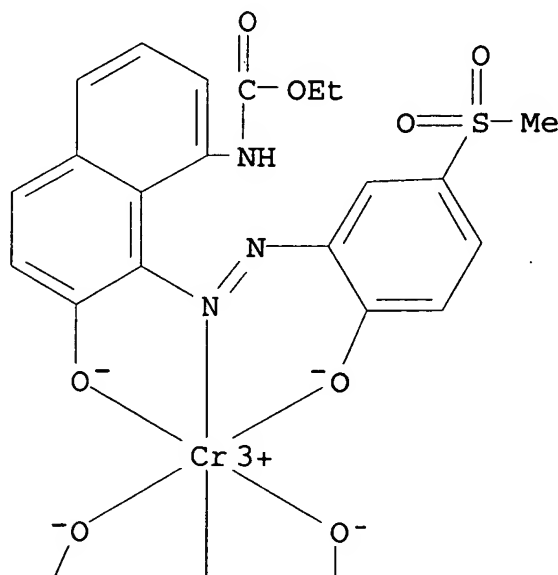
L11 ANSWER 47 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1962:463327 HCAPLUS  
DOCUMENT NUMBER: 57:63327  
ORIGINAL REFERENCE NO.: 57:12663g-i  
TITLE: Investigation of some wool dyes by paper chromatography  
AUTHOR(S): Lindner, W. F.  
SOURCE: Chemiker-Zeitung (1962), 6, 103-8  
CODEN: CMKZAT; ISSN: 0009-2894  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable

AB A no. of dyes, e.g. Polar Brilliant Red B, Acid Fuchsin, Methylene Blue BB, C.I. 17045, were chromatographed on paper strips with ascending or descending solvents as well as by a circular paper disk method. The latter gave a more rapid and sharper sep'n. of the components. The make of the paper has little influence on the

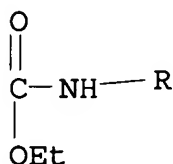
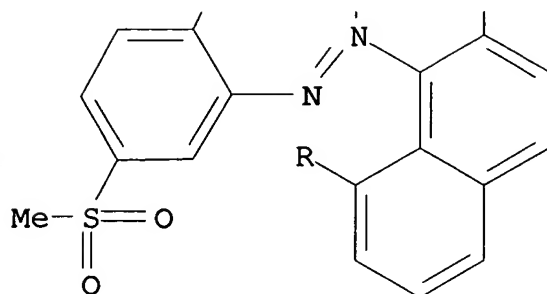
results. Thirty developing solvents were tested and 15 are listed. The Rf values decreased as the height of ascension on the paper increased, as the distance of the starting point from the edge of the paper was increased, and when the time of satn. of the paper over the solvent increased. Raising the temp. of development increased the Rf values. The use of acetylated paper did not give as good results as the regular paper. Many of the dyes sepd. into several components with 1 component generally much stronger than the others; Universal Brown H gave as many as 9 components while Erio Fast Red 5B L showed only 1 component.

IT 12218-94-9, C.I. Acid Black 58  
(chromatog. of)  
RN 12218-94-9 HCAPLUS  
CN Chromate(1-), bis[ethyl [7-hydroxy-8-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-1-naphthalenyl]carbamato(2-)]-, hydrogen, (OC-6-11)-(9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

● H<sup>+</sup>

CC 44 (Dyes)  
 IT 61-73-4, C.I. Basic Blue 9 569-64-2, C.I. Basic Green 4  
 2611-82-7, C.I. Acid Red 18 3244-88-0, C.I. Acid Violet 19  
 3521-06-0, C.I. Basic Blue 1 3567-66-6, C.I. Acid Red 33  
 4404-39-1, C.I. Acid Violet 14 6245-59-6, C.I. Acid Red 6  
 6247-37-6, 2-Anthracenesulfonic acid, 1-amino-9,10-dihydro-4-[p-(N-methylacetamido)anilino]-9,10-dioxo- 6359-54-2, C.I. Acid Yellow 18  
 6360-07-2, C.I. Acid Red 37 6417-36-3, C.I. Acid Red 133  
 12218-94-9, C.I. Acid Black 58 12768-80-8, Maxilon Blue RL  
 15722-48-2, C.I. Mordant Yellow 5  
 (chromatog. of)

L11 ANSWER 48 OF 48 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1962:61530 HCAPLUS

DOCUMENT NUMBER: 56:61530

ORIGINAL REFERENCE NO.: 56:11839g-i

TITLE: The effect of heat-setting treatments on the dyeing behavior of nylon yarns and fabrics

AUTHOR(S): Peters, H. W.; White, T. R.

SOURCE: Journal of the Society of Dyers and Colourists (1961), 77, 601-5

CODEN: JSDCAA; ISSN: 0037-9859

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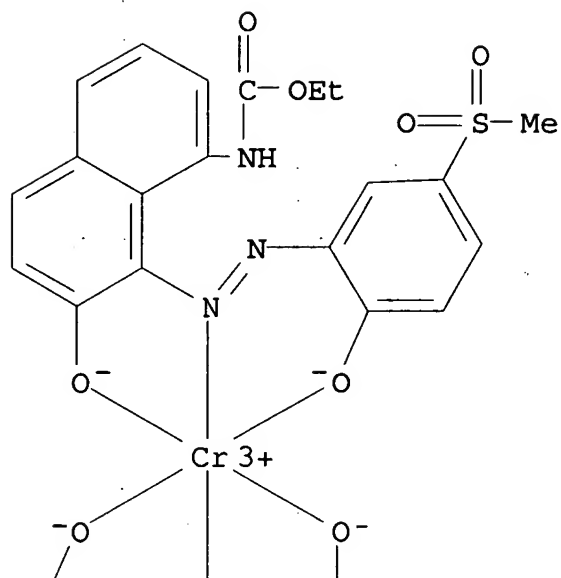
AB Measurements have been made on the influence of temp. and time of dry-heat setting on the rates of dyeing of nylon 66 yarn and fabrics with the direct dye Chlorazol Violet R (C.I. Direct Violet 3) and the 1:2 metal complex dyes Irgalan Red 3G (C.I. Acid Red 220) and Irgalan Gray BL (C.I. Acid Black 58). Other measurements were carried out on steamset nylon 66 to det. the influence of presteaming conditions, steam pressure, steam quality, and variation of the steamsetting procedure. The practical implications of the results are discussed with attention to uniform setting and subsequent dyeing behavior of nylon yarns and fabrics. The effects of dry-heat and pressure-steam setting are interpreted in terms of the proposed mol. mechanism of setting which considers the influence of moisture on the structure of nylon.

IT 12218-94-9, C.I. Acid Black 58  
(nylon dyeing with, effect of dry-heat and pressure-steam setting on)

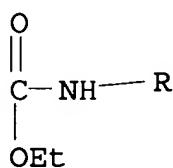
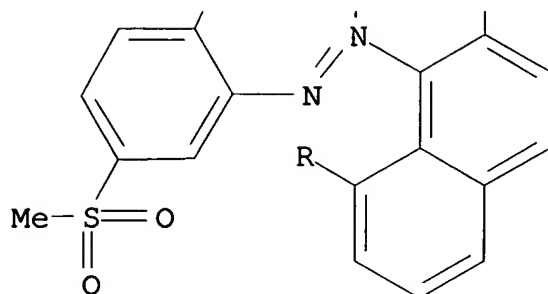
RN 12218-94-9 HCAPLUS

CN Chromate(1-), bis[ethyl [7-hydroxy-8-[[2-hydroxy-5-(methylsulfonyl)phenyl]azo]-1-naphthalenyl]carbamato(2-)]-, hydrogen, (OC-6-11)- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



CC 48 (Textiles)  
IT 6507-83-1, C.I. Direct Violet 3 12218-94-9, C.I. Acid  
Black 58  
(nylon dyeing with, effect of dry-heat and pressure-steam setting on)

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